## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 5 February 2004 (05.02.2004)

PCT

### (10) International Publication Number WO 2004/011650 A2

(51) International Patent Classification<sup>7</sup>: C07K 14/005, 14/18, A61K 39/12

C12N 15/33.

(21) International Application Number:

PCT/EP2003/008112

24 July 2003 (24.07.2003) (22) International Filing Date:

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

Λ 1124/2002 24 July 2002 (24.07.2002) ΛT 03450171.8 11 July 2003 (11.07.2003)

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

### **Declarations under Rule 4.17:**

- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations
- of inventorship (Rule 4.17(iv)) for US only

#### Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

### (54) Title: ALTERNATIVE READING FRAME ANTIGENS FROM VIRUSES

(57) Abstract: The invention discloses polypeptides encoded by an alternative reading frame of a pathogenic virus, which polypeptides - start with a methionine amino acid residue, - comprise an antigenic determinant and - comprise more than 7 amino acid residues and fragments of said polypeptides comprising more than 7 amino acids.

# WO 2004/011650 PCT/EP2003/008112 - 1 -

### ALTERNATIVE READING FRAME ANTIGENS FROM VIRUSES

The invention relates to peptides derived from pathogenic viruses.

For several viral infections it has become more and more clear that an early effective and strong CTL response to most encoded viral proteins is critical to overcome or clear a viral infection from the host.

Selection for mutations within CTL epitopes of HIV demonstrates that CTL exert pressure on virus replication in vivo, and studies in macaques have provided compelling in vivo data for the role of CD8+ T cells in controlling viremia in both acute and chronic simian immunodeficiency virus (SIV) infection. HIV-infected individuals who are treated during acute infection show enhancement of both CTL and T helper cell responses against HIV associated with subsequent viral control after treatment interruption.

Therefore the identification of precise epitopes from most (if not all) viral proteins is a major goal in view of understanding the hosts immune response and most important for the design of new and effective vaccines against those pathogens.

As up to now, most research for the identification of those epitopes has focused mainly on those proteins of the viruses which are encoded in the actually transcribed open reading frames (ORF's), i.e. the structural proteins and the proteins which have a certain function for the virus, e.g. for its regulation, replication or reproduction.

Although some research has been performed in investigating in potential alternative reading frames of pathogens, the topic of such alternative reading frames has up to now only been regarded as relevant for tumor antigens, but not for viral pathogens, despite some reports about overlapping reading frames in HCV (see Walewski et al. (RNA 7 (2001) 710-721) and WO99/63941) and otherviruses or antigens (Bullock et al. (J.Exp.Med.186(7)(1997), 1051-1058), Malarkannan et al. (Immunity 10(1999) 681-690) and

- 2 -

Shastri et al.(J.Biol.Chem.270(3)(1995) 1088-1091). All these reported viral polypeptides have starting codons other than AUG or ATG leading to peptides starting with e.g. Ala, Leu, Pro or Gly. Moreover these viral peptides according to the prior art were no T cell epitopes, but - at best - were able to elicit an antibody response.

It is an object of the present invention to provide further means for combating viral infections. It is a further object to provide means for replacing or improving existing or proposed vaccines against viral pathogens, especially human pathogens. A specific aim is to provide effective T cell epitopes against viral pathogens.

Therefore, the present invention provides a polypeptide encoded by an alternative reading frame of a pathogenic virus, characterized in that said polypeptide

- starts with a methionine amino acid residue,
- comprises an antigenic determinant and
- comprises more than 7 amino acid residues and fragments of said polypeptide comprising more than 7 amino acids.

Surprisingly, such epitopes (antigenic determinants) proved to be highly relevant in infections with pathogenic viruses. Indeed, T cell responses against such alternatively encoded epitopes are detectable in patients suffering such infections. It seems that upon infection of a virus into a host cell, not only those ORFs of the viral genome, which give rise to the viral proteins, are transcribed, but also some of those proteins or fragments which are encoded by other frames of the genome.

Such a polypeptide according to the present invention may be defined as an antigenic sequence within an ORF of the genome but outside the primarily (main) transcribed ORF of a given pathogenic virus.

Alternative reading frame as used in the context of the present invention is defined as a reading frame which is different from the open reading frames (= main frames) which encode utilized

WO 2004/011650 PCT/EP2003/008112 - 3 -

codons of an organism or virus for the expression of e.g. structural proteins or non structural proteins.

Typically but not exclusively a main frame starts with the first coding start codon, e.g. AUG or GUG of a nucleic acid eg. of a messenger RNA or an RNA from a positive/negative stranded RNA virus. Alternative frames described in this invention do not use these start codons or any other codon used by the main frames, respectively.

The present invention considers 5 such alternative reading frames which by a second name are also called non-coding open reading frames (ncORFs), to be distinctive from the main frames as described above. One such alternative reading frame is the +1 frame, which uses codons that start with the next nucleotide 3 prime of the 5 prime nucleotide of a main frame codon. A second such frame is the +2 frame which uses codons of which the 5 prime nucleotide is identical with a 3 prime nucleotide of a codon of the main coding frame. Alternative reading frames 4, 5 and six are encoded by a nucleic acid which is complementary to a nucleic acid, encoding alternative reading frames 1 and 2 respectively. The 5 prime nucleotide of a frame 4 codon is complementary to a middle nucleotide of a codon of a +1 frame. The 5'prime nucleotide of a frame 5 codon is complementary to the 5'prime nucleotide of a +1 frame codon and the 5'prime nucleotide of a frame 6 codon is complementary to a 3 prime nucleotide of a +2 frame codon.

Furthermore, alternative reading frames might be located in regions of the genome which are not involved in main frame translations, eg. so called non translated 5 prime or 3 prime regions.

Although these "ncOrfs" ("non coding ORFs") do not display a (yet) known function for the pathogen, they encode for antigenic determinants (B- or T- cell epitopes)

In contrast to all enabling reports about alternatively encoded ORFs in HCV (see Walewski et al., W099/63941) and other viruses or antigens (Bullock et al., Malarkannan et al., Shastri et al.)

- 4 -

the polypeptides according to the present invention have all an AUG or ATG (encoding Methionin) as start codon. Moreover the peptides provided with the present invention contain T cell epitopes as antigenic determinants and are not intended to exclusively elicit an antibody response.

The principle provided with the present invention seems to be a general one in viral infections. It is therefore not restricted to certain viruses or certain groups of viruses. Regarding this, preferred polypeptide or fragments according to the present invention are those from major and prominent (human) pathogenic viruses or pathogenic virus for which currently no proper treatment or active immunisation protocol exists, such as Hepatitis A virus (HAV), Hepatitis B virus (HBV), Hepatitis C virus (HCV), Hepatitis D virus (HDV), Hepatitis E virus (HEV), Hepatitis F virus (HFV) Hepatitis G virus (HGV) Human Immunodeficiency viruses (e.g HIV-1 and HIV-2), Influenza virus, Foot and Mouth Disease virus (FMDV), Ebola virus, HTLV I, HTLV II, SIV, Parvovirus, Papilloma virus, Rotavirus, Adenovirus, Cytomegalovirus, Feline Immunodeficiency virus (FIV), Epstein-Barr virus (EBV), Herpes simplex virus (HSV), Herpes zoster virus (HZV), Measles virus and oncogenic viruses.

With the present invention, a completely new generation of immunogenic epitopes are provided which according to a preferred embodiment are characterized in that the polypeptides and fragments according to the present invention comprise at least one cytotoxic T lymphocyte (CTL-) epitope.

Preferably the polypeptide or fragments according to the present invention comprise a cytotoxic T lymphocyte (CTL-) epitope for a HLA allele selected from the group consisting of A0201, A1, A24, A3, A31, B3501, B4403, B7, B8, especially A0201, or mixtures thereof.

According to a preferred embodiment, the polypeptide or fragments according to the present invention comprise at least one T helper cell epitope.

Preferably, the polypeptide or fragments according to the

- 5 **-**

present invention comprise a T helper cell epitope for a HLA allele selected from the group consisting of DP, DQ, DR or mixtures thereof.

Preferred epitopes according to the present invention are selected from the group listed in table 2a)-n) (Seq.ID No.1-822) or a fragment of said polypeptide comprising more than 7 amino acids and/or epitopes comprising or consisting of a fragment selected from the group listed in table 4a)-n), preferable fragments with a score of 50 or more, more preferred with a score of more than 200, especially fragments with a score of more than 500 (according to the scores given in the table which were determined according to the algorithm reported by Parker et al. (J.Immunol.152 (1994) 163)).

Further preferred epitopes according to the present invention are the polypeptides selected from the group listed in table 6 and comprising more than 7 amino acid residues (Seq.ID No.823-874) or a fragment of said polypeptide comprising more than 7 amino acid residues.

The polypeptides or fragments according to the present invention may be conjugated to a carrier, especially to an immunomodulating substance. For certain applications, such conjugations result in an improved action of these peptides. It may also be preferred to couple selected hydrophobic (F, I, L, A, Y, W, C) or acidic amino (D or E) acid residues N- and/or C-terminally to the peptides as described in WO 01/78767.

Preferred polypeptides or fragments therefore comprise a tail consisting of two to seven amino acids, said amino acids being selected from F, I, L, A, Y, W or C, at at least one of its N-or C-terminus; or a tail consisting of two to seven amino acids, said amino acids being selected from E or D, at at least one of its N- or C-terminus.

In specifically preferred conjugates, the polypeptides or fragments according to the present invention are conjugated to an immunomodulating substance selected from the group comprising polycationic substances, especially polycationic polypeptides,

- 6 -

and immunomodulating nucleic acids, especially deoxyinosineand/or deoxyuridine containing oligodeoxynucleotides.

Preferably the polycationic substance is a polymer, preferably a polycationic peptide, especially polyarginine, polylysine or an antimicrobial peptide.

The polycationic compound(s) to be used according to the present invention may be any polycationic compound which shows the characteristic effect according to the WO 97/30721. Preferred polycationic compounds are selected from basic polypeptides, organic polycations, basic polyaminoacids or mixtures thereof. These polyaminoacids should have a chain length of at least 4 amino acid residues. Especially preferred are substances containing peptidic bonds, like polylysine, polyarginine and polypeptides containing more than 20%, especially more than 50% of basic amino acids in a range of more than 8, especially more than 20, amino acid residues or mixtures thereof. Other preferred polycations and their pharmaceutical compositions are described in WO 97/30721 (e.g. polyethyleneimine) and WO 99/38528. Preferably these polypeptides contain between 20 and 500 amino acid residues, especially between 30 and 200 residues.

These polycationic compounds may be produced chemically or recombinantly or may be derived from natural sources.

Cationic (poly)peptides may also be polycationic anti-bacterial microbial peptides. These (poly)peptides may be of prokaryotic or animal or plant origin or may be produced chemically or recombinantly. Peptides may also belong to the class of defensines. Such host defense peptides or defensines are also a preferred form of the polycationic polymer according to the present invention. Generally, a compound allowing as an end product activation (or down-regulation) of the adaptive immune system, preferably mediated by APCs (including dendritic cells) is used as polycationic polymer.

Especially preferred for use as polycationic substance in the present invention are cathelicidin derived antimicrobial peptides or derivatives thereof (WO 02/13857, incorporated herein

WO 2004/011650 PCT/EP2003/008112
- 7 -

by reference), especially antimicrobial peptides derived from mammal cathelicidin, preferably from human, bovine or mouse, or neuroactive compounds, such as (human) growth hormone (as described e.g. in WOO1/24822).

Polycationic compounds derived from natural sources include HIV-REV or HIV-TAT (derived cationic peptides, antennapedia peptides, chitosan or other derivatives of chitin) or other peptides derived from these peptides or proteins by biochemical or recombinant production. Other preferred polycationic compounds are cathelin or related or derived substances from cathelin, especially mouse, bovine or especially human cathelins and/or cathelicidins. Related or derived cathelin substances contain the whole or parts of the cathelin sequence with at least 15-20 amino acid residues. Derivations may include the substitution or modification of the natural amino acids by amino acids which are not among the 20 standard amino acids. Moreover, further cationic residues may be introduced into such cathelin molecules. These cathelin molecules are preferred to be combined with the antigen/vaccine composition according to the present invention. However, these cathelin molecules surprisingly have turned out to be also effective as an adjuvant for a antigen without the addition of further adjuvants. It is therefore possible to use such cathelin molecules as efficient adjuvants in vaccine formulations with or without further immunactivating substances.

Another preferred polycationic substance to be used according to the present invention is a synthetic peptide containing at least 2 KLK-motifs separated by a linker of 3 to 7 hydrophobic amino acids, especially L (WO 02/32451, incorporated herein by reference).

The immunomodulating nucleic acids to be used according to the present invention can be of synthetic, prokaryotic and eukaryotic origin. In the case of eukaryotic origin, DNA should be derived from, based on the phylogenetic tree, less developed species (e.g. insects, but also others). In a preferred embodiment of the invention the immunogenic oligodeoxynucleotide (ODN) is a synthetically produced DNA-molecule or mixtures of such molecules. Derivates or modifications of ODNs such as thiophos-

- 8 -

phate substituted analogues (thiophosphate residues substitute for phosphate) as for example described in US patents US 5,723,335 and US 5,663,153, and other derivatives and modifications, which preferably stabilize the immunostimulatory composition(s) but do not change their immunological properties, are also included. A preferred sequence motif is a six base DNA motif containing an (unmethylated) CpG dinucleotide flanked by two 5' purines and two 3' pyrimidines (5'-Pur-Pur-C-G-Pyr-Pyr-3'). The CpG motifs contained in the ODNs according to the present invention are more common in microbial than higher vertebrate DNA and display differences in the pattern of methylation. Surprisingly, sequences stimulating mouse APCs are not very efficient for human cells. Preferred palindromic or non-palindromic ODNs to be used according to the present invention are disclosed e.g. in Austrian Patent applications A 1973/2000, A 805/2001, EP 0 468 520 A2, WO 96/02555, WO 98/16247, WO 98/18810, WO 98/37919, WO 98/40100, WO 98/52581, WO 98/52962, WO 99/51259 and WO 99/56755 all incorporated herein by reference. Apart from stimulating the immune system certain ODNs are neutralizing some immune responses. These sequences are also included in the current invention, for example for applications for the treatment of autoimmune diseases. ODNs/DNAs may be produced chemically or recombinantly or may be derived from natural sources. Preferred natural sources are insects.

Alternatively, also nucleic acids based on hypoxanthine and cytosine (as e.g. described in the WO 01/93905) or deoxynucleic acids containing deoxyinosine and/or deoxyuridine residues (described in the PCT/EP02/05448, incorporated herein by reference) may preferably be used as immunostimulatory nucleic acids for the present invention.

Of course, also mixtures of different immunogenic nucleic acids may be used according to the present invention.

The above mentioned substances may be used as conjugates with the present peptides or fragments or as mixtures. The mixtures may either be provided in a form already mixed or as a kit of single components intended to be mixed before application.

- 9 -

The preferred polypeptides or fragments according to the present invention comprise a T cell epitope.

Surprisingly, with the present invention not only polypeptides or fragments having a shifted reading frame (i.e. reading frame 2 and 3) are provided as clinically relevant peptides, but also such peptides and fragments being encoded by an alternative reading frame which reads on the complementary strand as the functional reading frame of said pathogenic virus, i.e. generally referred to as reading frame 4 to 6 in the present specification. This means that also such reading frames proved to be of importance which are located at the opposite end of the known (functional or structural) gene or e.g. its regulating elements.

Therefore, one further aspect of the present invention consists in all antigens being encoded by alternative reading frames of pathological viruses which read on the complementary strand as the functional reading frame of said pathogenic virus, i.e. generally referred to as reading frame 4 to 6.

Preferred polypeptides or fragments according to the present invention comprise at least one peptide selected from the group of peptides listed in table 4a, 4c, 4e, 4g, 4i, 4k and 4m having a score of 50 or more, more preferred with a score of more than 200, especially with a score of more than 500.

According to a preferred aspect of the present invention the present polypeptides or fragments are used as a therapeutic agent. It is known that especially T cell epitopes may be used as vaccines for prophylactic uses. However, with the peptides and fragments according to the present invention, especially with the HCV derived peptides i.a. in reading frames 2 and 3, also a therapeutic tool for combatting (chronic) infections with such pathogenic viruses, such as HCV, is provided.

The peptides and fragments according to the present invention also include modified epitopes wherein preferably one or two of the amino acids of a given epitope are modified or replaced according to the rules disclosed in e.g. Tourdot et

- 10 -

al.(Eur.J.Immunol.30 (2000), 3411-3421), as well as the nucleic acid sequences encoding such modified epitopes.

According to a preferred aspect, the present invention also relates to a pharmaceutial composition comprising one or more polypeptides or fragments according to the present invention. This pharmaceutical composition may be used for both, prophylactic as well as therapeutic purposes.

As stated above, the present pharmaceutical compositions preferably further comprise an immunomodulating substance, preferably selected from the group comprising polycationic substances, especially polycationic polypeptides, and immunomodulating nucleic acids, especially deoxyinosine- and/or deoxyuridine containing oligodeoxynucleotides.

In the present pharmaceutical compositions, the peptides or fragments according to the present invention may be used alone or in combination with "normal" polypeptides (epitopes, antigenic determinants) of a given pathogenic virus (or combinations of antigens of different pathogens). A preferred embodiment therefore further comprises structural or functional polypeptides of a pathogenic virus or fragments thereof, especially structural or functional polypeptides or fragments thereof comprising an antigenic determinant.

The administration of the pharmaceutical compositions according to the present invention may be performed according to the administration of other known polypeptide vaccines. Preferably, the composition contains per administerable dose 1 ng to 1 g, preferably 100 ng to 10 mg, especially 10  $\mu$ g to 1 mg, of one or more polypeptides or fragments according to the present invention.

Preferably, the pharmaceutical composition is formulated as a vaccine.

It is preferred that the pharmaceutical composition according to the present invention comprises further active ingredients, especially immunopotentiating cytokines, anti-inflammatory sub-

- 11 -

stances, antimicrobial substances or combinations thereof.

It is further preferred that the present pharmaceutical composition further comprises a polycationic polymer selected from the group consisting of a polycationic peptide, especially polyarginine, polylysine or an antimicrobial peptide, especially a cathelicidin-derived antimicrobial peptide, or a growth hormone, especially a human growth hormone.

Additionally, auxiliary substances, especially a pharmaceutically acceptable carrier, buffer substances, stabilizers or combinations thereof are provided with the pharmaceutical composition.

According to another aspect, the present invention also relates to the use of a polypeptide or fragments according to the present invention for the manufacture of a medicament for treating or preventing an infection with said pathogenic virus.

It was not foreseeable within the prior art that upon infection of a virus into a host cell, not only those ORF`s of the viral genome, which give rise to the viral proteins, are transcribed, but also some of those proteins or fragments which are encoded by other frames of the genome. This was even more surprising for reading frames 4 to 6.

The invention will hereinafter be described in a more detailed way in the following examples and the figures, yet without being restricted thereto.

Fig.1 shows the Elispot assay from the experiment with HLA-A\*0201 tg mice + HCV-H77 ncORF 11, 13, 27-derived peptides;

Fig.2 shows the Elispot assay from the experiment with HLA-A\*0201 tg mice + HCV-1b ncORF 36-derived peptides;

Fig.3 shows an Elispot assay for an HLA-A\*0201 HCV positive patient

Fig.4 shows the immunogenicity of peptides from HCV 1b reading

- 12 -

frames 4 to 6 in transgenic mice

Fig.5 shows that vaccination with ncORF derived peptides from influenza A virus in combination with KLK/o-d(IC) $_{13}$  induces potent IFN- $\gamma$  producing T cells and protection against viral challenge.

Examples:

## Example 1: HCV

HCV was used as a model virus for the present invention. The principles described in the present example, however, may be applied to any virus.

The entire genomes of 7 clinically relevant strains (1a, 1b, 2a, 2b, 3a, 3b and H77) of HCV were analysed in order to determine all ORF's being longer than 7 amino acid residues and starting with an AUG (Met) codon in all reading frames other than the reading frame for the HCV polyprotein. The HCV genome sequences were taken from the Genbank data base (Accession Nos.: AF387806 (1a), D11355 (1b), AF238485 (2a), AB030907 (2b), AF046866 (3a), D49374 (D26556)(3b), AF011751 (H77)). Altogether, 822 novel ORFs were identified in this study (see summary in table 1).

Strain	Frames	No. of	Seq.ID Nos.	Full sequence listed in
		frames*		table 2
1a	1-3	42	1 - 42	Table 2a
	4-6	68	43 - 110	Table 2b
1b	1-3	56	111 - 166	Table 2c
	4-6	75	167 - 241	Table 2d
2a	1-3	47	242 - 288	Table 2e
	4-6	71	289 - 359	Table 2f
2b	1-3	45	360 - 404	Table 2g
	4-6	75	405 - 479	Table 2h
3a	1-3	38	480 - 517	Table 2i
	4-6	70	518 - 587	Table 2j
3b	1-3	53	588 - 640	Table 2k
	4-6	72	641 - 712	Table 2I
H77	1-3	40	713 - 752	Table 2m
	4-6	70	753 - 822	Table 2n

- 13 -

Table 1: Number of ORF's in six different HCV strains (\* more than 7 AA long)
The following table 2 contains the full sequences of the polypeptides.

Other HCV subtypes which may also be preferably adapted for the present example include subtypes 1c, 2c, 2d, 3c-f, 4a-j, 5a or 6a.

Table 2a (Seq.ID Nos. 1 - 42)

HCV 1a ncOrf's 1- 3

Genbank Accession No.: AF387806

No.	Sequence	AA
1	MGATLHHESLPCEELLSSRRKRLAMALV	28
	MAMRAAGGRDGSCLPVALGLAGAPQTPGVGRAIWVRSSIPLRAASPTSWGTYRSSAPLLEALPGP-	
2	WRMASGFWKTA	76
3	MQQGTFLVALSLSSFWPCSLA	21
4	MIALTRVLCTRRPMPSCTLRGASLAFARATPRGVGWR	37
5	MANSPRRSFDVTSICLSGAPPSVRPSTWGTCAGLSFLSANCLPSLPGATGRRKVAIALSIPAI	63
6	MIASTPAGWQGFSITTSSTLQAVLRG	26
	${\tt MPTEAAPTSAPTAGTTPQNLAVLCPRRVCVVRYIASLPAPWWWERPTGRARPPTAGVKMIRTSSSLTIP-PTAGVKMIRTSSTAGVKMIRTSTAGVKMIRTSSTAGVKMIRTSTAGVKMIRTSTAGVKMIRTSTAGVKMIRTSTAGVKMIRTSTAGVKMIRTSTAGVKMIRTSTAGVKMIRTSTAGVKMIRTSTAGVKMIRTSTAGVKMIRTSTAGVKMIRTSTAGVKMI$	
7	GHRWAIGSVVPG	81
8	MQHPWPGRTVLYPSSCSSALHGI	23
9	MFITISLLFGTGRTTACEIWPWL	23
10	MEWSPRVGGCWRPSRRTPSRQGAS	24
 11	MGCAGLSTTGPERGPSRHPRVLSSRCIPM	. 29
12	MSFPCAGGVIAGAACCRPGPFPT	23
13	MLPQAAAKAPRSRLHMQLRAIRC	23
	MGSILTSGPG	10
15	$ ext{MPHPSWASALSLTKQRLRGRDWLCSPPPPLRAPSLCPIPTSRRLLCPPPERSLFTARLSPSK}$	62
	MPWPTTAVLTCPSSRPAAMLSSWQPMPS	28
17	$ ext{MLSPALNVGAGLAGGSQASTDLWHRGSAPPACSTRPSSVSAMTQAVLGMSSRPPRLQLGYERT}$	63
18	MPTFYPRQSRVGRTFLTW	18
19	MGQHPCYTDWALFRMKSP	18
20	MRWKSALSTYRTSSKG	16
21	MARAWRELLWHSRS	14
22	MFPPRTTCRRAMQLPASLPYSAASL	25
23	MPTPRAPVPPFLRRTTRSRYGGCLQRNTWR	30
24	MTPLMLSS	8

# - 14 -

	MAARFHLQSPLLCLRLGRSGRWSSLNQPYLLPWPSSPPEALAAPQLPALRATIRQHPLSPPLLAAPPT-	
	PTLSPIPPCPPWRGSLGIRILATGHGQRSVVRPTRRMSCAAQCLTLGQAHSSPRAPRKNRNCPSMH	134
	MGQKTSVAMPERP	13
27	MIPAALTPQSLRATSVRRRQSTNVVTSTPKPAWPSSPSPRGFMLGALLPIQGGRTAAIAGAARAAY	66
	MASAHFHSTVTLQVKSIGWPHASENLGYRPCELGDTGPGASALGFWPEEAGLPYVASTSSTGQ	63
29	MPGPAGSGFAYSCLLQG	17
30	MNHSPVRNYCLHAESV	16
31	MPGDLGVPPQDC	12
32	MAPVSPWLSA	10
	MGYDDELVPYDGVGNGSAAPDPTSHLGHDRWCSLGSPGGHSVFLHGGELGEGPGSAAAICRRRRGN-	
33	PRHRGKCRPHCVWIC	81
34	MHVGRPGGRHEHLGARWRRPGCFGRVLPVNRLRGHSGQGRLVREAGNHT	49
35	MLRFLAKGHLGLDMRGVERL	20
36	MEGVCRGIRGDKAGGGLPLRDGYDY	25
37	MPVPGPIARIFHRIGRGAPT	20
38	MEAGDGRQHHQG	12
39	MLLQRVSRPRRRWKEGLLPHP	21
40	MPQKTWGTALASLETPGPERPR	22
	${ t MWQVPLQLGSKNKAQTHSNSGRWPAGLVRLVHGWLQRGRHLSQRVSCPAPLDLVLPTPAC-}$	
41	CRGRHLPPPQPVKVGVNTPAS	81
42	MSVVQPPGPPLPGEP	15
12	ucu malumratein	15

- 15 -

Table 2b (Seq.ID Nos. 43 - 110) HCV 1a ncOrf's 4- 6

No.	Sequence	AA
1	MIPPPAARACRGAQTYVGAPRPIL	24
2	MEWYTPSLSTGAVASGAGLQ	20
3	MPOELPPRPRHTLQGCL	17
4	MKQWRGYQAALTSPPSIVSH	20
5	MRPALRRVRRTSSLNDRR	18
6	MWHPWSGTRHKLLCHKRPPSTRRRQGTCRRWST	33
7	MQPGPWCFCRCLWEHGGEPPGSSGALLVERSYP	33
. 8	MSGYLAERASPQGLDLHWYTSG	22
J	MVTELAPSTRREQHRHTTRPPPCPARTPAGATPTGAGGEATSRRCRPLRAPTYPSDTMQSR-	
9	RTRGRIQDRASRPGMLH	79
10		23
	MPCGDPLYGRDR	12
12	MALPGGGVLEAARHSY	16
	MRLTDLSQLAVTRAKMEPPLKKEGKERKKEGKKKKKKKKKKKKKKKKKKKKKKKKKKKK	
1.3	GNGLRGRSVYPNLHRLGRR	82
14	MPTPAASRSRQNQIQRGR A	20
15	MAALPPLARSLARTLRARCLQARKGGTPSFLRHAATLLISPGE	43
16	5 MIGGRSSGSME	11
17	MIMLPSQELTGVCLAVSHAALARGVVGSRVR	31
1.8	MSSKSYSGCGGSPGGAEYLVIASVKALRLAASSWTPALSQITTKSSPHTSMVQSWSPAARQAARALM	67
1.9	MATRAWGSRSQHW	13
20	MSLSVTVESKQRVSYENPIGVFLDFHACTRNSTRCPGEYWNP	42
23	1 MRRAGLRPPFSG	12
2:	2 MMVVSIGVTLSSRRSFHTELMWVTAFLAWQRTSFAP	36
2	3 MGSFCSSAAHGVTSAPVQE	20
2	4 MPEVEELPKLLVASSAKAVDRVDSVRTTVRFFRGGGTGGDFGGGSGQPWTTGGS	54
	$ ext{MLPPISCLHRRLASMSSASGESWLAVQVALRDGADSWLAEELATEGGDPLANLRPAASAVIWEGSVSMD-}$	-
	${\tt VNTATSGSGSQGNCDPTGYSWSPTLNDTSSRSKGLQGGANLCRRTPSNSVKNSGDGTWHGHLRLSVVI-}$	
2	5 PVT	140
	${ t MGKVPLHMFLQVLGPTILIVPFLTCPVISAPQWQRVCMMPSPRQTPLYPRWQDTKGIPGSCGMSLAF-}$	
2	6 SQVLKSLNTSHIQSQMSLSQEPEHGVVHSELIHWCSRLRSWVTVRLLSMAVTRAAASLSGT	128
	$ ext{MAGSRLTRSSVEGTSPLMILNATRAPATPAPYPARMSMRTFPSPTLPMAAPAKPAPTKAVAAP-}$	
	${ t GAASWAATHPPNMLKRRVWLVVSGLVTAAVKAINEAMAGLPGSVDKPAKYCIPLMKFHICFAQKVSSFC}$	
	7 QLVWTAGAITSA	144
2	8 MIAGFPDKTTLPTMTTQPVDRQYAAKAARTPPTSTQVLVTTSRSADMHVMMYLVTGCVRVISF	63

29	MYARSLTVVSAGVSSYQAQPAS	22
30	MPEGRSPGATNL	12
31	MPGFPLPVLPRR	12
32	MVKVGSRLKSTVWVTHVLQSITESKSPV	28
33	MRASVATTTTSPLVGMTDTSRPR	23
34	MPNATSFAASSSHFFFE	17
35	MRCLPPLITSRGIALP	16
36	MLGWGTVTEPGGVAVASTTSLAPAVSAWSRTVPMPKMDVASVEWHSSQIIMS	52
37	MGLPVVIVLTPVLMLGSIP	19
38	MVVSRFSTGIKSTALATPRVHTAALNMPTACPAGHNSGPPEEPFK	45
39	MGRGDSRLPLLSPRRRTGMTSACLVTR	27
40	MTGPLGDAMVLVPAPW	16
	MHVARKVWAAVDTIWTSPSTWFLSRPVRLVIMHPRRPLVCWAYAVMGASNLQPLETIPSAGPSS-	
41	ISRPLRAETGKPLMMSPHAAVSAPHVMSLVSIWEKTTGSTATARSRKPLCAQSRRGVRWL	124
42	MSNTRVGCTAHMSKMTASRPPRTLRGGIHTCSCASTLVRKY	41
	MSSIIHKQEQTRASASRRNRRTTYSHLMAQDAMLDPTPYKYCTSTMFWWRWMRPVDKAGRVVKEHGRT-	
43	CHCVVVSSNGLSSDLSLSSRSQRSPRVQLQAASSLCSTPPTYILILNIV	117
44	MTQGGAPHTLVNPVEFIQVQPNQLPSGGLVLLRTKTSVSFSPQL	44
45	MEKYAMPARTPQ	12
46	MSKMACGIRSS	11
47	MASAASYTILELGQSLVTW	19
48	MYPMRSAKPHVRVSMTLPKLRDLRRGSVGPQLGREPRGDRSHPAHPQPSLP	51
49	MVHGLRDLPGHSQAPYQAVPQGLSRPNTTRLAVLRGHAQISRH	43
50	MICREASISTLCSHAAHGPFTASRD	25
	MRHAVINVSPAVASREPAGQVQLASGRYWSEFELCSYCPVEEVLATYGSPASSGQKPSADAPG-	
51	PVSPSSQGRYPKFSEACGHPIDFTWRVTVE	93
52	MESLNDWR	8
53	MGHQYHPRPQCGGKHDYVA	19
54	MATDVFCPITKLGFG	15
55	MAVQNLQSVKCDFLLPLASTA	21
56	MDHRWFVVGLFPRLH	15
57	MVSGASCLERWSG	13
58	MGGISEHGRQHGHVRFGLAR	20
59	MSSDLSSTVAASVHDAVPSPDPLIPALAGHKGDPRQLWHELSF	43
60	MVPPGGEGYQPVHPLHCPLARANVPAQYCCTDHADYEGSGREDGGQ	46
61	MLRPEGLEFLPVGLDSRGDNLCLTGRGLQEAEGLLLELLGEHHPLLDVR	49
62	MEGGLEANQTLPHLVPRWGRGLSPSAHGGLVRYQVRKVLPTLLCLG	4
63	NGEACEDAT. PKEKVAA AHGK PRGVHVRS	28

- 17 -

	MTEDEMSPPLDYFEGDSLAVKRDLSGGGQSNLLDVGMGHSDGARRGGGGEHNQSRPRSLCLVK-	
	DSADAQDGCGIRGVALVTNYYVISAPRAPAVGKELAVGGVRDGAASGNCSHPGPDV-	
54	RIDPMSLGHVSTKAQCCSNRGVEY	143
	MEVSHLEALGHYWWRGVIREHRGPHGCL	28
66	MVINIGASKRP	11
67	MASDHLPR	8
68	MPKPIRVVDQAPGCDPGTGAAPRVCGVRMLAEAISGAVQGVVARPSDDTRRRSAHFGESS	60

- 18 -

Table 2c (Seq.ID Nos. 111 - 166)

HCV 1b ncOrf's 1- 3

Genbank Accession No.: AF

No	). S	Sequence	AA
1	L	- MATRVWGGQDGSCHPVALGLVGAPQTPGVGRVIWVRSSIPLHAASPTSWGTFRLSAPP	58
2	2 1	MASGFWRTA	9
3	3 1	MQQGICPVALSLSSS	15
4	4 )	MSRTTAPTQVLCMRQRT	17
5	5 1	MRRYKIAIAQSIPATYQVTAWLGI	24
		MTPSKLGSLLRCSTHTGSTRPDVQSAWPAAAPSTSSLRGGVPSLTLCLTSRTRGLIAGTMHPN-	
(	6	RAVLYPRRRCVAQCIASPRVLLWWGRPTVPESPRIAGGRMRQTCCYSTTRGRRKATGSAVHG	125
	7	MFCCSSFSWRTRASVPACG	19
:	8	MRRLWPERMAFSPSSCSSAPPGTSKAGWSLGRHMLSMAYGRCSCSCWLYHHELMPWTERWLHRAEARFL	69
!	9	MFGEAAMPSSSLHARSIQS	19
1	.0	MWTRTSSAGRRPPGRVP	17
1	L1	MLTSFRCAGGATVGGACSPPGLSPT	25
1	L2	MQPKGTRCSSSIRPLPLP	18
1		MASFLPMVVALGALMTS	17
		MSAIQLTRLQSWASAQSWTKRRRLERGLSCSPPLRLRDRSPCHTQTSRRWPCLILERSPS-	
1	14	${ t MAKPSPLKPSGGEGISFSVIPRRSATSSPQSCQASESTLWRITGGSMCPSYQLSETSLSWQQTL}$	124
-	15	MTRAVLGTSSPPPRPRLGCGPT	22
5	16	MHTSCPRPSRQETTSPTW	18
		MRSPSPTP	8
:	18	${\tt MKWKSAPRTSLTLSRECSSPSSSSRKRSGYCKQPPNKRRLLLPWWSPSGEPLRHSGRSTCGISSAGYST}$	69
. <u></u> :	19	MEQEWPARSWPLRS	14
	20	MCLRATPQRVLLRSSPALPSLSC	23
	21	MRTAPHRVPARG	12
	22	MFGTGYARC	9
	23	MEHSPSTHTPRAPAHPLQRQTILGRCGGWPLRSTWRSRGWGISTT	45
	24	MSLRTLTSSRPTSCGGRRWAGTSPAWSRRTRW	32
	25	MRGKYPFRRRSCGNPRSSPQRCPSGRARITTLHC	34
	26	MSSAAQCPTHGQAP	14
	27	MPQHLAAQACGRRRSPLTDCKSWTTTTGTCSRR	33
	28	MGQRTSGTYPARPLTTSTPCGRTCWKTL	28
	29	MRFSVSNQRKEAVSQPALSYSQIWESVYARRWPSMMWSPPFLRS	44
	30	MTLAVSTQRSPRTTSVLRSQFTNVVTWPPKPDRP	34
	31	MCRSPTMHQAKGCTTSPVIPPPPSHGLRGKQLDTLQLTPG	40
		MRPLCGQG	8
	33	${ t MALAHFHSIVTLQVRSIGWLHASGNLGYHPCESGDIGPGASALGYCPRGGGPPLVASTSSTGQ}$	63

- 19 -

34	MPGDLGVPPRDC	12
35	MAPVTPWLSA	10
	MRLRRPHGVHSACRRPPRRRCQGPGAWRPGSGGRRELCNRESARLLFLYLPLSFAVLF-	
36	DHPSFRLRGAQRVRDIPCHERLLQLKYCV	87
37	MSRAHGQLPPHRQVRSGVGSHHSRCA	26
38	MRLGSLVDT	9
39	MGVCSAALPSPGGRARLCLLVDDAADSPG	29
40	MAVAPALAGFTTTSLCHGPRDGCIVRRRGFCRSGTLDLVTIL	42
41	MVVTIFYHQGRGALASVGPPS	21
42	MRGPSRANL	9
	${\tt MHVSAEGRWGSLCPNGLHEAGRADRHVHLQPSYPATGLGPRGPTRPCGGSGARRLLRHGDQDHHLGS-}$	
43	RHRGVWGHHLGSARLRPKGKGDTPGPGR	95
44		15
45	MHPGGCEGGGLCARRVHGNYYAVSGLHGQLIPPGRTAVISSGPPTRSHWQRQEY	54
46	MCHPDSRLQLGSHLHH	16
47	MGSNVEVSHTAETYAARANTLAVQAGSRPK	30
48	MWSTDHRTCQKRFHEDRRA	19
49	MRARTGCSSAHFHAHRPLPHHSRNG	25
50	MHYPPCLSGR	10
51	MDRRLDHAMRCGGKQAAHQRVEQLFAAPP	29
52	MLLEGLCSLSSCEAPGLHDARERRRPCRYL	30
53	MFLQCVGRPRCIRQKGVLPHP	21
54	1 MPQETWGTTLASLETSGQERPR	22
55	5 MNGELNTPGQ	10
56	MSVVQPPGPPLPGEP	15
5	7 HCV polyprotein	

- 20 -

Table 2d (Seq.ID Nos. 167 - 241)

HCV 1b ncOrf's 4- 6

No.	Sequence	AA
	MICREASISTLCSHAAHGPFTASRD	25
	MAYWPGVFSSPFIGWGAGRCLPLQKVGVGTA	31
	MHRGRPTHWRNMMLSAPSRILVGAGPRGGQST	32
	MKSPWGFSLISRYSPGTRLAAQESTGIRMRSPSRPEEGWRPHHRGPSSRIHGLPDLGIR	59
5	MLWHKPCYGGAAKSCSTR	18
6	MCRTLSSRRHPH	12
7	MIRSCRRS	8
8	MSPSRKAQTTG	11
9	MVAVTQPGIG	10
10	MGTLRCQWSCPSRSGNPPPA	20
11	MFHATCCCRS	10
12	MPSMMLLRGSQAEWISLLSTVSR	23
13	MSQGLATWTPPREQQPPLVWWLFAVTRALSA	31
14	MMEVGPEPWRTPWLGMLPGRGSCLLPAWSGTRSVHLCG	38
15	MCYSRSLSQSRPYSPSSERLLPRQRRLR	28
16	MTAVRPGGMSCP	12
17	MVSRNAPRGAPASRRGPGPH	20
18	${ t MVTRSRVPDLQKPRLRTMQPSLGPWHKLVVVKPARAGATAIRHREHMPPQGPACL}$	55
19	MYSRTSCLAAAACC	14
20	MALVRARTRGSGCWRLPFPLSRGCARQRQQRVASQSRP	38
21	MALPGGGVLEAARHSY	16
22	MPTPTESRSRHSMNQRGRARDRL	23
23	MIMLPSQELTGVCLAVSHAARARGVVGSRVR	31
24	MACLASGAKSQHW	13
25	MSFSVTVESKQRVSYEKPMGFFFDFQVFTRNSTRCPGEYWNPYEEPITT	49
26	MMVVSIGVTVSSSKSFHTEWMWLTALLDRFRTSFAP	36
25	7 MLWWRSKELLNALMGSLLSSAAHGVIKAPVHV	32
	${\tt MEEYDSTSDPLSPSSEAWSGRAVAVPLSTADDSELPKVLVASSAKAEDTEDSVRTTVLFLRGGGIGGA-}$	00
28	8 LIGGNGHPCTTGGT	82
	MGIAAGNFLDFRRISAGTDTSLSSSSARSGSKESRTTTLFSDSTRVMFPPISCRHRRLASMRSASGET-	
	${ t WWVVHVAFKEGADNWLAEELAKEGGDPLANLRLAVSAVMWEGSVSMEVSTATSGSGSHGSCDPTRY-}$	1.07
2	9 WLSPTWNVTSSRRRGLHAGAYLCNRTPSTSEKNSGAGTWHGHFTLSV VMPVT	187
	${ t MGNVPCHVLLQVLGPTILMEPFLTCPVICAPHGQVVCMMPSPRQTPLYPRWHEKKGTPGSCGRSLD-}$	1 07
3	0 WSQVLKSVNTVHIQSQTSLSHEPEHGVEQSSLIHWWSLFSS	107
3	1 MAGSRI/TRSSVEGISPLMTLKATSAPATPAP	31

:	MSTSTFPRPMLPTAAPAMPAPTKAEAALGGASWAATHPPKMLNRKVLWVVSGLVIEAVNAINDAIAGFP	
32	${ t GRVDKPAKYCIPLMKFHMCFAQNVSRARHLDSTTGAAASACLVAVCSNPSAFCLNCSASCIPCSM}$	
	MTTLPVVRQYAARAARTPPTSTQVLVTTSRSADMHAMMYLVMGWVRVTSFWTAPSLYSKGVGPCSVGFS-	
33	RMRHFHI	76
34	MWVRPVKTLSQNSRWSWQTGNPGVFR	26
35	MPEGRSPGVTNL	12
36	MPLLPLPVLPRRCERDTAS	19
37	MVKVGSKLKSTVWVTHVLQSITESKSPV	28
38	MTDTSSPR	8
39	MRCLPPLMASMGMALP	16
40	MFGCGTVTDPGGVAVASTTSRAPAVSAWSRTVPMPKIVVESVEWHSSHIMMS	52
41	MVLTPVLMLGSIPCALDIYAPNPKVAATDGLRTSTLYPWAAYAAGTLVLLPLPVGACRWAT	61
42	MDSTGTKSTAFATPRVHTAARKMPTACPEGQSSGPPEEPFK	41
43	MTSACLVTK	9
44	MMQPSRPRVCWE	12
	MGARSRHPRPSRLSAGPRSISFPLRAETGRPKMMSPHAAVSAPQVMILVSMSEKTTGSTATARSRR-	
45	PAWAQSRSGVRWL	79
46	MYVPVSAPSFMKAIWT	16
	${\tt MPAWSTMSGPSMASRSLVMSKISSGWTAHVRRMMASRPPRTLRGGTHTCKCASALVIKYCNH-}$	
47	HMSLARNTL	71
	$ ext{MYQAAQKNTRKERRPCAPATDAALRTTRFSKVASAWAISSIIHKQAQTRASARRRKSSRTYSHLIT-}$	
48	TETTTDPTPYRYCTSTIF	84
49	~	8
	$\mathtt{ML}HGGPPHVLVNPVLFIHVQPNQLPCGGRVLLSSSTSVSFSPQLYVGTPERSVVPTTTGLGVKQYTG-$	
50	PHTCDAGTIPHGWGA	82
51	MGRQLAMRSGHPDALNLCA	19
52	MNPVWRESLQFRAVLLMCQLPLVFTSWIF	29
	MSTTACGIRSSCDTTRAVVGDQFIIISQAMR	31
54	MLLFLAASVGVSATQQREKLLSRTQGTHPGVCMIMSAASYTILELEQSFVTWYIPDTLRTS	61
	MVKQDSKAKRKIEKEQPGRFPVA	23
56	MYPMRSAKPHVRVSMTLPKLRDLRRGSVGPQLGREPRGDRSHPAHPIPSLP	51
57		43
	MRLTDLSQLAVTRAKMEPPLKKEERKREKEGKEKKKKKKKKKKKKNRKWPIGLECLAPRSS-	-
58	3 VGEQVDAYPYRK	7:
59	9 MSPDSQGWYPKFPEA	1!
60	) MESFNDLR	8
63	1 MWGRQLAGFLYG	1:
62	2 MVAQQRVAQRVDGQLAFLRSAWRDQGACPCVGH	3:
63	<del>-</del>	1
64	4 MPRVAAGLRPDDPHGTVFDMSGDLCSTWAGGLHDAVSPPDSLVPALAREKRDSR	5

- 22 -

	MTENEMPSPPDGFNGDGFAIEGDLSSIRQGHLLDVWVWHGDRSRRRSGGEHDKPRSSRLRLVQD-	
	MI-FWEWL 25 FDQ1 MODG1 WITHODE EN SOLUTION	75
	CADAQDCSRVS	
66	MALITYYDVISAPRATTIGKKLAIGRVCDGGACGNGPYPSSDVGVNTVCLRHIRPKP	57
67	MSRDQVKV	8
68	MVNGPTHAVDAGRQEGLCCGGNHLNLSLDLVLVPACKASDDATK	44
	MVVNVRACQRAQLHEGHLDIMTPSDLPH	28
	MNEPLSAHEVRHSGYASLEHHERTEYGEQEFGDVKD	36
71	A CONTROL OF THE CONT	35
	MRSGHRRRIEDHQVL	15
73		11
-	MVYPGHVAHLVSGSWDGQTRQQS	23
		9
75	MRQGPGSAS	

- 23 -

Table 2e (Seq.ID Nos. 242 - 288)

HCV 2a ncOrf's 1 - 3

Genbank Accession No.: AF238485

No.	Sequence	AA
1	MTPGIGRVTWVRSSIP	16
2	${\tt MTVPMTASPGSFRRRSSTSPGASRAREWEIHHGAGYRSHQMWLCSSAAPSRRACGRTSTWS}$	61
3	MAVGTSTAPP	10
4	MPARTFCAPRTVLGSILTPLTSNVVLGPGSRRGAWSTTLTGSGTTPAQLTIPSSR	55
5	MACHLPLQNMSFDGSG	16
6	MASYILSSFSWLLGTSKVGWSPWPPIPSPAYGPFAYCSSHCPNRLMPMMHLCKGS	55
7	MALYGLPPYSARVWCLT	17
8	MTTSPLCRIGLPTACGTWRSL	21
9	MDSPCPPDSVGRFSLAQLTATPPRGGSFSPPSPLTPSRHEVSWAP	45
10	MLRPAVEKAPKSLSRTLPRGIKC	23
11	MASIPTLGLESEL	13
12	MANSSPMGAARAAPMTSSYATNATPWTLPPSSASEQFLTKQRQPESG	47
13	MGERFPCLTSREGDT	15
14	MSSRRPFGAWAMLWHTTEGWTSP	23
15	MFPLVSEPQGCLIAWCSVSATTQGLRGMSLRQRRLP	36
16	MPTSFPKQSNRGRISHT	17
	MRLLMKWRNVPLKRLSLKRGSGWPRC	26
18	MARAFRGPSSHSRSTLARSPPWRTSSICCLGFCLRVPWWWESSARAFCAATWGREKARSNG	61
19	MCGTGFAPS	9
20	MRSRLPLGSIHL	12
	MMWTWWMPTCSWGAM	15
22	MPSSSWPSKPSASPLQAAIQASLQGRTPPTPAVGRPLMSWPFRRQVLPPPCPPSRGSLGIQTWSPTR	67
23	MTPSCAAPCHTPGPGP	16
	${\tt MDMGPRRFAACPGGPLTTSSPCGRTSWKTHKHQFLRPSWPKMRCSAWTPPRGVRKQLALSFTLTS-}$	
24	1 VLGSARRWPFMMSHKSFLRQ	85
25	5 MDSSTPPPSGWSFS	14
2	5 MTPDALTLPSLRETLELRRPYTRLAPCLRRPVLPYTR	37
2'	7 MTWLSSQKARGLRRTSGT	18
2	8 MCLWHSAYRAAADTT	15
2	9 MLQLYGSAWS	10
3	0 MPGHLGVPPQDC	12
	1 MAPVPPRFSSLLGPQ	15
3	2 MQLLHLPGYHHWASYGVGHDDELVTHYHHDPGLRDARPRGHHRHH	45
3	3 MGHFAIRG	8
3	4 MWHSPREVRVRPSVLFHPQPSRGGHDR	27

- 24 -

35	MVRLHVDELHWFHQDLWRATLPH	23
36	MWFWALAHAEFPGRLPLQALALPLHS	26
	MGHLALLFLRLARFVDWSTPPPPKYRGRTIHVWPVTCPYKICRSMGVGSALIPSPSGRQGLRLRVDAY-	
37	LAGPGRGSTREAGRLARCERS	89
38	MALLPTAPRTAPTGLCL	17
39	MGYHHILPGCGV	12
40	MRGHLTWTPRVRPTRSGDSPWPS	23
41	MDRLPRSWQ	9
42	MRRMPRRGRYHHPRHRNSS	19
43	MAQSGAILGQTHVELH	16
44	A CONTROL OF THE PROPERTY AND PRAME DAYN	40
45	MLCEGPSGLQSCGDSCAHNAGMRR	24
46	MVGKHHPVCSNYMGPHGPDDTFFLHPYGPRHSGPGP	36
47	MSVVQPPGPPLPGEP	15
48	B HCV polyprotein	

- 25 -

Table 2f (Seq.ID Nos. 289 - 359) HCV 2a ncOrf's 4-6

No.	Sequence	AA
1	MCHQDHADPYSWSILDDVSQP	21
2	MGWSQLARLLQGEELCADLGGR	22
3	MDLHSVHPGEKLWRG	15
	${\tt MGRGDVVSSGSKGYEPVHPLDRAFSRPHVAAQNARADDSHHQGTRRQNPRQQIDDVLHGGLLAR-}$	
4	HDLECDEGPRNARAT PRQDIHQHLAQAYAAYSSPH	99
5	MCESDLVGNRAQTV	14
6	MVLAHGQARRVEIRSKPYGSLRWRKLIPRSPCVVALTEHHAIKHP	45
7	MAEDQVSPSLDVRQGKRSPIEGDLTLLPEGHLLYIGMGGRHRPRGSGRGQYS	52
8	MCLGQIRPKPQGGSHRGIKH	20
	MQVPDLVGLGHSWWCAVVTKGGRPRDDVECFNGDEVYGLSHAPRAHSCPEDPDSVAPGAKHRSPRG-	
9	PLQSRKRSRGE	77
10	MLPKTVRGAQKVRAGIEVGSNAARWRATSLGETSGVHPRAAEP	43
11	$\mathtt{MRDSTPNSGGSRVHSSGHQKDDNDLGPRSLHREVGQAEHNAPMSSTNDVYDDLGDAHHVSQDHGGSG}$	67
	MPSDGTQVDGAIAFLHKPVVLRRDNEHLGCQHYPAAEVPHVESRAERSGHHDHVDVRPQALREGAALLH-	
12	SHIW	73
13	MRESSGNATKRGAYDGDVPHEVGEAAR	27
14	MPGVIGAPRGTRTSGGQEPSCPAESLVPV	29
15	MCAEGRRQARVTFQLWLGGPEDSRSTPIRTFQN	33
16	MLSAPGHIPVWGGHQEGRNTWS	22
17	MLSRETPPAGRGSTGIHKMPPSLPEEAFV	29
18	MTWSSTRRSHPPRSK	15
19	MVLRARGRSFLRPSGRESPERPLWTQTLSGSHRPP	35
20	MAPIAGSPRSLPQMGVTPALSAALQPPP	28
21	MDLLAWTSIHQYRAQGHKEAETRLQMN	27
22	MRRGPPKCPRHTPPGYPPAPCPGLCCLQQPPLGH	34
23	MPSWKPQQDSLVVLTVLRGTECR	23
24	MKPPQRVVCPGPV	13
25	MRRRLPRPPQLGPTCWS	17
26	5 MWRCILSQDV	10
27	MRNSPPIALFGKGSGHLCV	19
28	MPQHSSPCPEGPPRAHHTFSLNGRRSSVSLP	31
29	9 MWSTLWPPRSSQF	13
3(	) MRPSPPPRR	9
33	1 MHHRHKPVGAVRGAVGKRAIGR	22
32	2 MTPAVVGCCSTGKHLSHSPPTCKWALQVYRSCPPRLGWG	39

33 ]	MASYLLDW	0
34 1	MYFPLSRTGRTRGRGGPPPEAAR	
	MALPGGGGLEAVRHSY	16
	MYPMRSAKPHVRVSMTLPTLRDLCRGSLGPQEGREPRGDRSHPAQPSPSFPYRGQGYPG-	
36	FPQDLPVERRSLGMGWRLPRGWDRSEVFLVVRTPNLGPLRGNKYTPPTIWPPPGNLTSCGRRLVFLLVFL	129
	MSPPPAPTVNQLDKSRRRASGNGVSLSLVFTAQLKRYRPQTAALPPREMRDALTARARLF-	
	HALRGGAPSFLRAEATRVSSWGVYVCRRKASSPCNLSIMAGRSRGLTEYTDPYISKLRSWS-	
37	RVSWAIRMEKKCVIRTMRTHIVGAYWMMFPNHELTGECLTVSQAARAIGVVGSLVR	177
38	MTTKSSPHTSIVGATIPAALQAARAFT	27
39	MVFPMLVVSTPLARQRLYPQVWPLLLNIGPPT	32
40	MAVRASSGKEQAWYMASSVLMSLSVTVESKHRVSYEKPIGSFLSAHAFKRNSTRWAGEYWNP	62
	MMVVGIGVCESSRRSFHTDLMWLTALPDKLRTSLAPYPYLDLAEWGGVNWHASSK-	
41	VRSFALTLEAASLMSFKTES	75
	MEQHTTESSSSEQVDQDPESEPGAASPPWEGGRSSTWSGSRSGSPGSPSRGG-	
	MEEVEPVSERANSSGGVRPPESAASAPVERPESPLGGGWPKVLMASCWRASPMVLSLRPTVRRLLGG-	
42	GVGVFLGGGRAQPATVGGW	138
43	MNRLASTMSTS	11
44	MDINTSVS GSGSQGS	16
45	MAVLKFGAGFGMHWPSV	17
46	MLAPQGHRVVMMPVPAHTPL	20
47	MVQTQSHTSRSHEPAHGMGQSSVIQLWSLLSRLVIVREPSSWVTRCDASDSVT	53
	${\tt MSLFIHWTAPSPGPTWRRRMPAQMTPTTRAPGDKIPGSRLMTSSMEGFSPDMILNATRAPEMPAPYPAR-}$	
	ISTSTLPRPMLPTAAPTRPLTTKPVAPAGGAIWD ASQPPRMLRRIVVLVDNGLVRAALNAIMEATAG-	
48	FPGSVDSPARY	148
49	MPLMKFHMCLAQNCSTLGHEASTAGCMSWACLEACCNKPWILDFSISAIRCPSSMRAALEAHSSISSKAS	70
	${ t MCKRPMMETHPVAKQYAATAAKTPPARTHVLVMTSRSACMHVAMYFVTGCVKVTSLVTEPKRYRRGVG-$	
50	PTRVGLSRVRHFHMTSQDGGGALALAHTVA	98
51	MCVRPVKTASQNSRWSWHTGKPGVLKYALSLTVVSAGVSSYHAAPAS	47
	MRASVATTTTSP	12
53	MPRRAAASSSHFFFEWQKIKCLPPLM	26
54	MPRMVVASTAWHSSHMMMS	19
55	5 MAAPVVTVLTPVLMLGLMPCALDKYAPNPRVAATEGLSTSTLYPWAAYATGTLVLFPLPVGACKYRTW	68
	MSSASTGMKSMDLATPREHTAARKIPTAWPLGQSTGPPEDPFKVERGLGESNAPRLSPRLRAGMTSA-	
56	5 FRVTRYRSTAPHEHGSKDLVPGGLGHPTKSPSALEYICVTGPREPARVLLPAPW	121
57	7 MDVPRKDWVTVDRTWISPACSVLSRPVMLTTMAPKRPRVCWA	42
58	8 MGARSFHPLEV	11
59	9 MSPHAAVSAPQTMTFFSIGLKMIGSTATAKSRRPLAAQSDIGARWS	46
6	The state of the s	30
6:	1 MASPRVRR	8

- 27 -

	${\tt MYQAATKKMTKYRKPLQLAALAACKTTSFSSAASAWPSKISIHTQAQTLASARRRNKSTTHSHRTTYFV-}$	
	RAGDRPYMYCTSTIFWWRWSRPVDKAGKSEKEQGKMAHSVVECNRGDSWLLSLSSKSQRSPRVKL-	
62	HAAVSLCSIPPTYILILKME	154
63	MRQGGAPQVLVKPVEFIHVQPNHDPRGGRVLFNRKTSVSFSPHV	44
64	MCQLPLVLISWMFCLEPGERRPAKLSVL	28
65	MTTTLAHAPCIEK	13
66	MMSMMTSGTRIT	12
67	MVVVGDQFIIMSHAIRCPVMVPRMEQLHSCTNQWCSGEIMNIWAASITPPQRSPT	55
68	MSMCVRKPCVRAPRCCTATFGETGIQHRDVFPTLSHGTHPGTWRTAA	47
69	MLSLEOSLVTM	11
70		23
	MYPMRSAKPHVRVSMTLPTLRDLCRGSLGPQEGREPRGDRSHPAQPSPSFPYRGQGYPG-	
71	OF CHANGE BY DRIVER OF THE PROPERTY OF THE PRO	129

Table 2g (Seq.ID Nos. 360 - 404)

HCV 2b ncOrf's 1- 3

Genbank Accession No.: AB030907

NΙΟ	Sequence	AA
	MGATLRHESLPCEELLSSRRKRLAMALV	28
.1.	METRVAVGQVGSCPLAGLVLLGAPATPGIDHAIWAGSSTPSRVVLPISWGTSLSLAPLSEASPEL-	
2	WHTVLGSWKTG	76
2	MQRGIYPVALFLSSYLLFCRALQCQCLQWKSGTSALATTPLMIARTTASPGSSLTQFSIFLDVSHARMT-	
3	MVPCAAGYK	78
4	MRPPIPPARQWAGPLGALLASLSLVPNRTSN	31
± 5	MTACTRVSWPPCFMPTNSTALAAPSVCLPAVGWMIFVSGGEPWNTRPTSPMLKT	54
6	MT.PMLSVEOGPG	12
7	MDFLOLLRNTS	11
8	MGRCGSSSFLRRPGT	15
9	MTTSPPCQLGRPRVCGTWRLPWSLSCSAQWRRRSSCGGLRQWHVETSCMASRFPRG	56
1.0		10
	MSRPGRSRFCPPSHNPSWGHLFRGFSGRYITGLVTRPWLAPEDQSPRCTPAQRGTSWDGLVPPGLSH	67
	MIDGVHCCRQGLSQPSKDHPEDPCSALGDTPWACSERPCAPGVWPNLLTSSRLNLSTSLDGRPVFLT-	
12	TOTAL TOTAL OF A DECLEDATION OF THE DESCRIPTION OF	108
13	TOWN DOG A CROST PRI DOG A CROST PRI DROVI COMME	5 <b>0</b>
14		13
15	THE CASE OF THE CA	31
	5 MSHQAKGRLGCSTA	14
17		16
18	MPTSSPRRSKEEITLRI	17
1.9	TO SECOND DESIGNATION OF THE SECOND POLICE OF THE S	44
2	O MLPLLTTWRSLTPRCA	16
2:	1 MIVTWWMPTFSWEAM	15
2:	2 MIVSLLYHQST	11
	${ t MWRGSLGRWQTKCSALSKTPMTPVTPLGRIPEETASSSPLARLPLQMRDHCPPCLPLRGSRGTLT-}$	
2	3 WSLSQRDPLPLPRGSVRSSTRTLSRGLQSPIKRILLSAAPCHTPGQEPS	114
2	4 MTQSCRTLSGLPLRLVRGSSQ	21
2	5 MRCSVLIPPRAEKSQLASSYTLTLGSGCAKRWPFMTLHKSFPRQ	44
2	6 MGSNTLLQNGSIFSSKLGEVRRTQWGSHMTPAASTQPSRRGT	42
2	7 MGLTPSHCTHTLPTNSHGWQRLSGNLERLPLERGRVGRVL	40
2	8 MPDPAYYSFAYSYLA	15
2	9 MNHSPVRNYCLHAESV	16
3	0 MSGHLGVPPQDC	12

- 29 -

	MGHDAELVTNSYHDPRLRCSCSRVGPGNCLRRPLGCGIWLGLFLHAGSVGQGHCHPPSCCGSGCDHLF-	
31	HRRDSGPDRWELCWPL	84
32	MRYRPSSVGLRAGLLLYS	18
	MRSTTLPH	8
3.4	MHRKFHHLQGADVCRGGGA	19
	MQFHTRRPLQIGR	13
	MLLLRPTGTIYWPVAPSPKHRGRAVPLWTFSSCYEIHRKVGMGGPPFPVAGRRQDLCMPLDAHHTGPS	68
	MGSPPGGPRGA	11
	MWRHPAWPPGFREAR	15
	MGPGWGGASRRGSLLPGDRLHLHHWPHTPE	30
	MRLQSRPH	8
	MAQDRTILGQTHVELHQWHTVPGGTLHLTGKSRSGINDGFQRRIN	45
42		20
	CONTRACTOR DESIGNATION DESIGNATION DUOT I HER AT CAKTES	46
43		14
	MWARGGEVANQPSE	15
	MSVVQPPGPPLPGEP	15
46	HCV polyprotein	

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- 30 **-**

Table 2h (Seq.ID Nos. 405 - 479) HCV 2b ncOrf's 4-6

No.	Sequence	AA
1	MRLTDLSQLAVTRAKMEPPRKEEKKKIRKKRKKKKKKKKKKKKKKKKK	46
2	MCAMRRRQAHVAFQLWPAGLVD	22
3	MSWCSPCW	8
4	MRTPLGPSYFPKL	13
5	${ t MSRSQEGCSLDGPREVVPVGTFSSWSSTLMVQKAHDHPLPQSWNRGSQERSPWSRTQFGSHRLP}$	64
6	MPFYGWYR	8
7	MPLRDFPVRWRVPPGTVCH	19
8	MMTAWLAVCPGPVLWPVVGGLVS	23
9	MRHTCKCPIAPSQFSLYVDYGRQRPEGQSEW	31
10	MRQGPWCSSRYLSVRAGSPPGKFGAQLVACCCQKNWASV	39
11	MHPVYHLSSGPE	12
12	MPLSQPPTR	9
13	MAPVVETL	8
14	MWPRGPLCPLSTRPP	15
15	MHRSWRLPATGKGGPPIPTLRCIS	24
16	MATPPTQWWSAAVDSADPYPYLPICSGLRV	30
17	MLQRIYAPPPLHTSAP	16
18	MDNATVCKGSLSGTWGSTRALLHT	24
19	MALGGNASSTASCLQHW	17
20	MGHIQEDGELR	11
21	MALPGGGGLEAVRHSY	16
22	MICRETSYGTLCSHAAHGPFTASRD	25
23	MPTPTLSRSRQRSNRRGRACDTL	23
24	MSPPPAPTVNHPDKSRRLASGNGVSLSFVFTAQLKR	36
	${ t MMSEALTARARLFHALRGGAPSFLRVAATRESSWGEYVCNEKASSPCSLSIMAGRSSGLTEYTAPY-$	
	ISKLRFWFRVSWASSMEKKWVIMTIRTQIVGAYWMMLPSQELTGECLTVSQAAR-	
	VIGVVGSLVKKYRRRPRESSATDTFEEQDVISSKSYSGLGRSPGGAEYLVIASVKALRFRSSSSLPWLSI	
25	5 MTTRSSPHTSIVGSTIPAALHAARALM	217
26	5 MVFPMLVVKTPLARQRL	17
27	MDSSVLMSLSVTVESKQRVSYENPIGSFLLPQALRRKSTRSAGEYWNP	48
	${\tt MRRAGFFPPLAGSIQNTSFLAMAVVSIGVCWSSRRSSHTDRMWLTAPLDKLRTSFAPNPYRDLAEWG-}$	
28	GVNAQASSTERSLALTLEAARLTSCKTES	96
29	O MRAPVQEYDMEQQITESS	18
30	MTSHSPSEGGADLAGSNSRSGSPGSPSRGGMEDSDPASEAAVSPEGCWTLSPPVSAPVE	59

	MESRESRTITLESDSIRVTSPPMKRLASTMSQSYAVLWVVQVAFKDGADSWLAEELACEGGDPLASR-	
31	LAAVSAVMWDGSVNMEANTSVSGSGSQGS	96
	MGKVPCHMFRQVFGPVIFMVPKRTWPEMFAPHEHRVVMTPVPAHTPLYPFWQEMKGRPGILGSNFAD-	
32	SQFLKSVRMEHTHSQMSRSQDPEHGTGQSSVIQACSLLSKLVIVSELNTCVTRSEASDSAT	128
	MTPTTKAPGDKIAGRRFTTSSTEGFSPLMILKATRAPEMPAPYPARTSTNILPRPILPTAAPTRPLTTK-	-
	PVAPAGGAIWEANHPPMMFKRMVVLVGSGLVNAALKAIIDATAGFPGKVESPARYCMPLMKFHM-	
	CLAQNCSILGHDDCMAGCMSWACFVACCRRPSILDLSISAIRCPSSMRAALEAHSSISSKASYKISLSG	A
33	TTT	206
34	MRPMMEMQPVARQ	13
35	MTSRSACMHVAIYFVTGWVRVISLVTAPKRYRRGVGPVSVGFSLVRHFHITSHEGGGAFALAHTVA	66
36	MCVRPVKTASQNSRWS	16
37	MVKVGSRLKSTI	12
38	MTESKSPVYPVIRASVATTTTSP	23
39	MPRRAAASSSHFFFEWQNIRCLPPLMEARGIALP	34
40	MLAWGVVTVPGGVAVARTTSLTPAVSAWSRTVPMPRMVVASTEWHSSQMMIS.	52
41	MLGLIPWALDM	11
	${\tt MSRDSTGMKSIDLATPLAHTAALNKPTACPLGQSTGPPDDPLRVERGLGDSNAPRLSSFLRTGMTSA-}$	
42	FRVTR	72
43	MAPRRPRVC	9
44	MGAKSFHPLEV	11
45	MSPHATVSAPHTMTFFSIGLNTTGSTATARSRKPWAAQVDKGERWS	46
46	MVINSIWIYLAPARCLTRVHTRSRA	25
47	MTATQMIPSRPPRASRGGTHC	21
48		20
49	MKNHSGPLALAALAECKMMSFSSAASAWPSMMSIQRHAQILASASNRKRRTTHSHFTMYFVTAGESP	67
	MVKFTVHG	8
	MRQGGAPHVLVNPVPFIQVQPNQAPRGGLVLFSRKTSVSLSPQL	44
	MSSTLVTLVSYSKVPHPIRKSSSPRQEDKRSGQPELLNLLA	41
53	MKPVCKLSLQLRAVRFMCQLPLVLINWTFCWAPSLKRPAKLPTVRPTVAPVE	52
54	1 MAMTLAHAPCMEK	13
55	5 MVRVGDQFSIMSHAMRWPVI	20
56	5 MEQLHSWVKLWRSGDTIRACDTIITAPHTSPTYRAEQTVAAITITSTCARRL	52
5	~	10
58	8 MFLISTEDTGTVTHDRRASKKIEKEQPGKFLVA	33
	MYPMRSAKPHVMVSMTLPKLRDLCRGSLGPQVGRDPRGDRSQPAQPQPSFPYRGQGYPG-	100
5	9 FPQDLPVERRSFGMGWRLPRGWDRSEVFLVARTPNLGPLRGSK	102
6	0 MRHAVKDVAPAGAHGEPPG	19
6	1 MLVFQEVLPHGPDVVNGPPG	20
6	2 MEPHKRVTQRADWQLLLLGPTWCYEGSCPGV	31
6	3 MGGTGSLQGRGGQLAR	16

- 32 -

64	MLRDLNVLRRCHPPNSGLIIRRGFWHTRPFCVTIDGEGSLPHV	43
65	MVSPRGKGDQSVHPLDRPLSLADVAAQDCCANDSHYQGARGQNSR	45
66	MGQGNLVGHGTQAV	14
67	MTKGHLLYVSVGSCHRTGGRGCG	23
68	MALVADDDIIGAG	13
69	MQDVSTCHCLSPPHDDLLLHWAEHDRLHGNRQVPQTLGRPS	41
70	MSHQGTHS	8
71	MLHPPYIHPHLEDGEIYGAWIMPQSVRVVYQAPGGQPGPCSTLNIGSIWVLPKTVCRAQ	59
	MPAVRPHVFNIGDVGLVFQGSPPDTKIIQPTAGRQTLGAARAVEFVGIKQGGHETRVQAVIAVEGG-	
72	PVYVPAAVGID	77
73	MAAEDNFQDQLGNTSSVGEDHGKSW	25
	MTLVDGTVALLGKVVAFWRYYKSLRHDHHGPTHISHVQSRADRSCHYDHIDVCSQVVSECTAVFYSHIR-	
74	CYLYPAAQGTIVILAWDTSRKMENCVSELPGDAVVRAIISGVVASADVPDFH	122
, 4	MPGVAGAPSRTRPARGQEPTCPTATLVSIQRPRISWLSPGLAGGAPIFRDGLASPTRLGSLGSLP-	
	CRAHTQPGAPARQQVNSANDLAATRELDVLWAAVCVSFGFSLRFRICAHGARSTRPP-	
75	GALASTISGSTTRPFATORYSASSLAGARPNDRT	156

- 33 -

Table 2i (Seq.ID Nos. 480 - 517)

HCV 3a ncOrf's 1 - 3

Genbank Accession No.: AF046866

No.	Sequence	AA
	MALVRVSCSLQAPPSRESHSGLRNR	25
	MVMRAAGGQGGSCPRAAPVHLGAQMTPGGGPAIWVKSSIPLRVDSPTSWGTSRSSAPPWEASQEPSRMA	69
	MRPMTSFCTHPAAYLVFRTTIYPRAGPQ	28
	MPPEGLLAFLVWAPNRNCSWLTPMARGTSTALP	33
5	MLTSPVLLMTNRTAGTTHLDLVKLSRHQVSAVLYTASHHRQWS	43
6	MPRACQPTPGVRMIPMCSCWSPCGLPVVGGLGARG	35
7	MGVGGIPEMSQTSSAPPTASGNILRPHTAGVVRGPG	36
8	MSNTFMALDLAWWDGR	16
9	MRGRVKTALLSALGSWPSSASLPYHPGTSIGSAALYGGTSTPYVDASPPSKCGSPPYLHAGVGTVSSC	68
10	MTIGRWVGDCWPRSQHTPSKLGAFLGLL	28
11	MVQVRERSRAPNIPRSKCTQM	21
12	MPMSSLLGAGGTPQRACSVLDLSPVSKVPLEVLLCALRGMLQGSLGLLCAPEV	53
13	MPRPAAVKAQRSRPLTWHKDILFSC	25
14	MGSTPTSALGTAPLQLVPN	19
15	MNVMPKTLLAYWVSARS	17
16	MCPSYQQQETS	11
17	$\mathtt{MRFPAANVVAVRAEVDSVHTDMSPPVKDRLECLTRLFSVSAMTRAARGTISSPLRPQSD}$	59
18	MPTFCHRLSSRDLTSRT	17
19	MDLRPFYIGWGLSKMKSACHTPSQNTSWHACQLIWK	36
20	MRWRSAHKPPRTSSKLRQ	18
21	MELVSQAPWWLLRSWEENSPPLRTWSTCCPPYYLRVLSSSV	41
	MFPRAMLQRGSPHC	14
23	MKZTQALVVTTGCVSSGTGFVRCCPTSSHGSLLRLCQRSPGCPSFPVKRDTRACGGGTA	59
	$ ext{MGPCGLQGRVHVLTCGTVLSPSMSTPPDPVHLVHHPTTLARYGAWLPTATLKCAEWGTSIILRG-}$	
24	1 PQKMSSSVRAKYRLLSSSLKWMG	87
	MTPSSRWLQSVSRNLPSILQPFLSGLGQTTILHCWTAGKLRIMYHQLSMDVPYH-	
2	5 HGALRRSLLLGGKEQFSWTVPMCPRRYVR	83
2	6 MTPAALTQLSLNRTSGWKRRYTNAATLNRRPGK	33
2	7 MIWSWWPRVTASMRMGQP	18
2	8 MLHSPPTTLSSSHLAPPTSPWHGTTRGGGTITSPVMPPLP	40
2	9 MDHSPVRNFCLHAESA	16
3	0 MPSKAQQLQAHHFLQAGVGSLDRC	24
3	1 MYSQFHIVQGEDVRGWVRAPVYRRLQLDQGGALRYRRS	38
	${\tt MGAEMGVRHPHFPPPSGPTRVRCPLADADDNTSRSSLGEPCHAERRRCWDTRYRLVPGGLLCGVV-}$	404
3	2 RAGQTCPGGDLQPDGPLAPSFARPHAPPTGVCVVG	101

# - 34 -

33	MVEPVHHM	8
34	MRVRPPSVGPPLTCTRE	17
	MRCHTTPTRRTWGGGGTVDEQAHRIRIPGQPRFTNALCSRERCCSEGHRIAEFSNCHKPAPAVTPVDQ	68
36	MARGCQQLR	9
37	MCLTTTGRSAGPSSSEEKNNSAGRFQCVRGVTCASGKIISVLETAGRE	48
38	MLIHASSRGRTGRSGLELRLLVHR	24
39	HCV polyprotein	15

- 35 -

Table 2j (Seq.ID Nos. 518 - 587)

HCV 3a ncOrf's 4- 6

No	Sequence	AA
1	MESFNDCW	8
2	MVVEHLQSVEGNLPLTLRSASRRR	24
3	MMSQQGVAEWADGQFLLLSTTRCYQGAGPRVRHRAADHALLLAVTNGGPRVATQVRIARFSLERRHG	67
4	MDSWWYIIRSFPAVQQWRIVVWPSPDRKGWRILGRFLETLCSHRELGVISFGPQRFE	57
5	MRPMRLASGLQRRS	14
6	MRRVSQHRGQHRNIWFWLTGELRSYRVGIQPYRESDLLS	39
7	MEVPHSAHFNVAVGSHAP	18
8	MTGYCCPARTACRHHAVPPPHALVSLLTGNEGQPGERWHNLSREP	45
9	MGGNPPPEYVEKHSLVGRQGTGD	23
	MLVPEGLKLLPVGSYYGLNDSLLLGGSLQQSKDFFLELVGYCLSLLDVRGGL	52
	MTHNHNAAD	9
	MAKDKVPPPLEQGYRYSLTVEGDLTFRAQGHFFDVRMWHSDAAWGSSCR	49
	MTFITDNHIVCPPGATPVREKLTVGGIGQFGTSCNGAVPSADVGVDPIGTRHERAKA	57
	MKVSYLIALWNSRRS	15
	MPRRAHNRTSRGTFETGERSRTEQARCGVPPAPSRDDIGIAGNQV	45
	MFGARERSRTCTMVNSPRNPPHCCT	25
•	t MQQWMLLAAVTIFDIAALPPGPVASGGKPVLEPTHEHPHLEQCEIDCTWVMPKPVWIVDHAAGCQPG-	
17	PRTTPAVCGLRMFPEAVGGAEEV	90
18	MIIKQPSYEPGVYGLITVQGSAVDVPRAIGVNQLQFLLGAHTKKASKPSGGMSCRATGGICYGIDP	66
	MGPGYYVEQGLGHPQDVRHRHTQSGEPIHHHIPSHSMS	38
20	) MTTYRSGGCSDVPDCHCRCHWGPARGYIVVLNTRYAAGCVQNDVIGLIHNTAIGTVVGEDVEARRIPPL	69
	MREGSCDASHGGADERDVPHEVGESTRKGIDDFTQIAGPPPGVIWAPRWTGAARGQEPPCPPAAL-	
21	l ITIEGPRVPGLSPGPASALTRLGDRLSSSAGL	97
22	2 MARRFPREDRSSSQGSDPWWSVAS	24
23	3 MSMTLSRTPLPGRGAPWK	18
2	4 MIFPLAHVTPRTHWNRPAELFFSSEEEGPAERPVVVRHIHGQLVVHNPELSSGPTVEDCSLA	62
2	5 MNQESQPLFQTPPV	14
2	6 MEGTHAQGGALPSRR	15
2	7 MEGRNGGVSPHPLQ	14
2	8 MDKVYWVRWCTH	12
2	9 MYAALQAAWTHSSHDRLLLPRKDSVSTSRRPPATRPCIPFDRK	43
3	0 MYRVYLGPYGHDVGCGKPHLGEQCGSRWKRWGPG	34
	1 MPPRSNPRPRETYRRWNRSVWHQL	24
3	2 MDSAREQYILVPRKRPGPLCFYRCRSGHEGILPDSSVEQQEELNCQRKMGT	51
3	3 MMDKAGLLAG	10

34	MGNAKAGMDSRPCSGVSTRAPHHTGCMWPQDVS	33
35	MPGQLYKV	8
36	MLRHRPLKT	9
37	MDGSRAGTGATLPTRSPHYHRGAKGTRAEPRTGLRSDAPWG	41
88	MALPGGGGLEAARHSY	16
39	MPTPTVSRSRQSSK	14
40	MSFPPTPTVNQMDKSNWPARGSGVSLVLVRTAQLKR	36
41	MIAGKSSGVTE	11
42	MEKKCVIITMRTQMVGAYMMMLPNQELTGV	30
43	MSCSVTVESKQRVSYENPKGVFFEVHILSRRSTRC	35
44	MMVVGIGVVVSSSKSSQTERIWLMALLDKERTSFALYPNFDRAE	44
45	MVSMRAFTLDARSFTSFNTVL	21
	${\tt MGSFSSSALHGVIRAPVQEYDIEQQTTLCSSLSLTVDQESQLKSGSPGSPSRGGMDEHDSESDSPPGEG-MGSFSSSALHGVIRAPVQEYDIEQQTTLCSSLSLTVDQESQLKSGSPGSPSRGGMDEHDSESDSPPGEG-MGSFSSSALHGVIRAPVQEYDIEQQTTLCSSLSLTVDQESQLKSGSPGSPSRGGMDEHDSESDSPPGEG-MGSFSSSALHGVIRAPVQEYDIEQQTTLCSSLSLTVDQESQLKSGSPGSPSRGGMDEHDSESDSPPGEG-MGSFSSSALHGVIRAPVQEYDIEQQTTLCSSLSLTVDQESQLKSGSPGSPSRGGMDEHDSESDSPPGEG-MGSFSSSALHGVIRAPVQEYDIEQQTTLCSSLSLTVDQESQLKSGSPGSPSRGGMDEHDSESDSPPGEG-MGSPGSPSRGGMDEHDSESDSPPGEG-MGSPGSPSRGGMDEHDSESDSPPGEG-MGSPGSPSRGGMDEHDSESDSPPGEG-MGSPGSPSRGGMDEHDSESDSPPGEG-MGSPGSPSRGGMDEHDSESDSPPGEG-MGSPGSPSRGGMDEHDSESDSPPGEG-MGSPGSPSRGGMDEHDSESDSPPGEG-MGSPGSPSRGGMDEHDSESDSPPGEG-MGSPGSPSRGGMDEHDSESDSPPGEG-MGSPGSPSRGGMDEHDSESDSPPGEG-MGSPGSPSRGGMDEHDSESDSPPGEG-MGSPGSPSRGGMDEHDSESDSPPGEG-MGSPGSPSRGGMDEHDSESDSPPGGSPSPSRGGMDEHDSESDSPPGGSPSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPPGSPSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSESDSPSRGGMDEHDSPSRGGMDEHDSESDSPSRGGMDEHDSPSRGGM$	
46	GTLEVVLDCVSTPEEELFSSCGFKDGNDFSASARNAADTLEPSS	113
47	MLLPISCRHNKLAFTSSASG	20
48	MGKVPCHMLAHVRGPASRMDPFFT	24
49	MKGSPGSAGIILAESHDLKSDSTEQTQSQMIRSQSSLQGLG	41
	MSLFIHCTAPSPGPTCRRSMAAHITPTTRAPGDSMAGNRLTMSSAVGSSPPMILKATKAPETPAPY-	
	PARMSSKTLPRPIPPMAAPAKPLTTNAEELWGPAK-	
	WVATHPPSMLKNIVWLVVRGLVTEAVNAIRDATAGLPGRVERPARYWIPLTKFHICLCQKASSFCQLVAT	
50	MGSMTACCWVARCSNPRTFSLNWWAIA	198
51	MYGAACEHSSISSYC	15
52	MHAMTYFVMGCDKQISFWTGPNRYKRGVGPCSVGLSRTRHFHVSSQLGGGACARAHTVAW	60
53	MEKVGSRLKSTYCSTATLQSMTESKSPVYPVMRASVAQTTTSPVVGMTDTSRPL	54
54	MLECGTVMLPGGVRVAKTVSLTPAVSA	27
55	MKEPKPSVAATDGFSTRTVYPCAT	24
- *	MNCRAFATPLVHTAALKIPATCPEGHITGPPEEPLRQARGLGLSKLAVESPLRRAGMTSASRVTKYK-	
56	SAEPQAHGSRDLAPGGAGHPTRS	90
57	MTLISMGLNITGSVATARSLRPAAAQCCIGARW SYR	37
58	MLSMIIWKYFPPITERTSMQRRTSTCARTK	30
	${\tt MTPSLLPRASKGGTHTWRADSHLHMVYWFHHIRRPIQCLYQGDKVKKPKRAKTPAPRVALSSPDHAYAR-}$	_
59	WGSMRTSKARGQRPVRL	86
60	MRMTNSHFSAHPTMPDPTP	19
	${\tt MFWWRCIRPVDSAGMGVKEQGSMASSVVECNSGCCSLRSRSSISQRSPLVQLQAAVNRCSNPPTNILTLG}$	_
61	NNVKLTVHG	78
62	MORGVNOGPAPHRLYVASGCFLKOSVGOKRSDSFPEFPPPP	41
63	MSQGEAPHVLTNPVEFIHVHPNHRPPGGRRDSSRNTSVSFAPQV	44
64	MLASVKGPHPCLKKVMGLQLLSL	23
65	MNPVFMDSLQFRAVLLMCHEPLVLTSCSFCWAPTLKRLVSPLVA	44
66	5 MMIATLAQLPCME	13

- 37 -

MPQWAPAIMSNKVWGTRRTCATAIPRAGNQFIIISQAIRCPERWPGYSEQLQVWTVWWR-	
RGLNVKACPTRKTAPHISPT	79
MTSSASYTILLLEQSLVRT	19
MYPMRSANPHVRVSMTLPKLRDLRRGSFGPQDGREPRGDRSHPAHPQPSLP	51
MVFLUVELCGLGSVLMLHGLRDLPGHSOAPYQAVPQGLSRPNTTRLVISRGHAQISGY	58

- 38 -

Table 2k (Seq.ID Nos. 588 - 640)

HCV 3b ncOrf's 1 - 3

Genbank Accession No.: D49374, D26556

No -	Sequence .	AA
	MALVRVSCSLQAPPFRESHSGLRNR	25
-	MSCRVGAHNWVCAKQVRLPSDHNLADGVSLPPRHARARAGPGPSPGTLGPSTGMRAVVGQDGSCP-	
2	PAVLAPAGAKMTPGVDPATWVRSSIP	91
3	MRLAYICLPTTAPTGALCMRPTT	23
4	MSODIVWLGI	10
5	MGHGTLTALP	10
6	MVPVRTDHIAGTIHPDPVT	19
7	MSVGPSTALHPHRWWWAPLILKACQLIGLV	30
8	MMPRLPAAGPGPGLRQGVW	19
9	MNIDSQPPATGRGESAVILKIVTAVSNNHCSIQRLTR	37
10	MPPSGPGCSCSSGSLPYHHGISTGLAVLSGGTSMPYAGVRPPCKYGSPPCLFEVVGTV	58
	MTTCPPYRTGLPRVSKDWRWPRSPSSLVLWRLRLSPGVQTQQPAETSCAGCPFRRGWAASCCWVRLTI-	
11	TRRWDGAYCPRSQHTPSKLGDYLELLSPA	97
12		26
13	MLHRDILS	8
14	MGLTPTSVRGHAPSQPVPNSPTPHTASSSPMGVVLEAPNT	40
15	MNVTRKTLPPYWV	13
16	MAKPSHWQ	8
17	MTQVVPGMTYNLLRPQCD	18
18	MTPSCHRQNSRA	12
19	MRCGNVSYA	9
20	MMRWKNVPSLLLTSSKHRLSLSNSRTKSSACCKGRANKKLKFDP	44
21	MGLGSPAP	8
22	MYHQHTMSPRATRQQK	16
23	MTSGTGSVSYLVTLRPGFRPRSCPRCQAYPFSHVKRGTREYGEGMG	46
24	MAPSPSMNTPLGRVHPSPRTITRVPCGA	28
25	5 MSRCVGWGILITWWGPRTTA	20
26	5 MLLLVSPF	8
2	7 MQMGPSFHANPSRTSQC	17
2	MGRMCPRHSLPWQRDLSRRRNRKGQAHPPQE	31
2	9 MLTLGPPSVTPKSRAWFAVLCHTPGLAP	28
3	0 MTITKMYSRR	10
	1 MFVPCPAKP	9
3	2 MTSGRRRGYTNVVTLNQRLGRQSALSQSTCTSGVPCITAKDSNAVIAAAALAASCLPALATQ	62
3	3 MNHSPVRNFCLHAESV	16

- 39 -

34	MTGSFLGTTRSMPGNLGVPPRDH	23
35	MALAPPRFSPQLGPK	15
36	${\tt MRALRRNRQQQHIVLDTDFTDGGRQAPWCDHRVDPKSCEYVGGPANAVLSTIRRRRLRGRVPCGTSVHL}$	69
37	MCVDEQYRVCKDLWGSPLQHLWGDEGH	27
38	MPYRLFQEAP	10
	MLIYTYAPPVNRAHTPPPEHRGRAIPLWCWFCRSGLGSQVGVRRPRLPPSGGRTRVCGPLDDVTDF-	
	SGGSSNGELGDAERPQRSGTTGLRLVPGCILRRMAHPGEARSADNLWFDRPVAPSPARPPAPSACLRLD-	•
39	GRRRCHHRGRGAPAPRVLYLITMV	159
40	MGPPPACSR	9
41	MAPTVPDLSIRPANSGTIWNYCHQPDR	27
42	MSRARRYLHTGYRHGAGSSRDSRGEADGTGNRDPSRQHHGAAS	43
43	MSHTPEADSARPYSSPV	17
44	MFPVCSLHRASTGYRSAIQGQSPRLAAKGEPTRS	34
45	${ t MAESGGVLATAHVELCERDPVPGRSLHTARQPCRGFPYGLHRLCNQPPHNQPDYVL}$	56
	MCCSVAPACRPWGRSSAVDEQTHSVRISGEPCITNTLCPRERRGSKSNSIAELSNRHPIASPVT-	
46	PVDQRGLS	72
47	MSKGVQGSMARGWGDDNALPLWGRLYRTRKEWVHEDSRIRPLR	43
48	MPGASARVLHRVRRSEAPPLCSSL	24
49	MRTRAGRRSVNLDVARSCSHHRRHSGPAPCARFTSIGS	38
	MEGPNLRAARSSRVCLATNSSRTSASPPQKEDNQARWVECVRGTPCPGREIFPVDET-	
50	GRDRHILLRSRYRIHR	73.
51	MQRRGGKTTYQSTQQLVAETPQSCLLYVISKRRRTSEEGYLRQTASAR	48
52	MLSCPPPLRPVEVRV	15
53	MRLSPLPR	8
54	! HCV polyprotein	15

- 40 -

Table 21 (Seq.ID Nos. 641 - 712)

HCV 3b ncOrf's 4 - 6

No	Sequence	AA
1	MAGSGTRHAVINVVPADTDRKPTRKI	26
2	MESFNDSW	8
3	MFGDSRVKATSVV	13
_	MLHSLFGRVLEPVGRPHRCN	20
4 5	MVIEHLQSVEGNLLLTCGGASR	22
6	MRPVRLTSGFQ	11.
7	MQSYTEGDLVPQKGLTRRSIAVEPHSV	27
8	MSIPHPTHLDITVGGHAPQGTRVIVRGDGCTRPSGVFIDGEGAMPHVSAEA	51
9	MVPPRCERYESVHPLHCSFPRAYMPAQHCSTYHANNQRSRG	41
_	MPHDDDTTY	9
	MSOSGKHSLPEV	12
ᆚ	MAEYKVSSSLDHCQWEGFAIKGDFSVTGEAHLLDIRMRHRDAAGRGRGCQYRQPHP-	
10	GCLCLIQHRAYTQYGGSVLRVTFIADDHVIGASRTTPIGEELAVCGVGEFGTGCDGACPRTDVGVNPIGE	126
13	TOTAL CONTROL OF THE PROPERTY TOTAL CONTROL OF THE PROPERTY OF	44
	MEQWILLTAVTIFKITALSPRPVAGG	26
J. *±	MFMSSYEHSDLEYREVHSARIMPQSVRVVYQTPWRKPGPGPAAGKRGIMVLPETIGRAFKVGLICFN-	
15	TO SOURCE WITH CONTROL	110
16	A CONTROL OF THE POST OF THE P	18
17	A DEPTH OF THE CARE	27
18	TO THE STATE OF TH	34
	MKTLRGSSSTSTS	13
	) MLPRKRAGDPSPQMLAPSPP	20
	L MVLLWRQSRSMT	12
22	TO THE TOTAL THE PROPERTY OF T	56
2:		14
	4 MEVNRAQGAGPLWRR	15
	5 MKAGTHLHMNAILH	14
	6 MGFLGRRSWPPPRNEYPPPYAPRHNCRRSRATGHASNCARGRVYSAQWCIH	51
	7 MRERVCLAPWA	11
	8 MLLLLLPRRSRGHSVLVIHGSPEMRTL	27
	9 MLQVPLGVWLPNLQGC	16
	0 MVGSPLHERRQWLDMPPSMQSLGPAVLPVTRSGHLYESVR	40
	1 MLSVALWSQQVVGHTRNNLRHSTHIAPPSQTCRTAAPLE	39
	2 MDLALGQNIPVQHKRRGLWCFCRFQWGREGILLGRTPGRQGGWNCH	46
	3 MLRSGTVGAIPSSCNRQPDPATTRGPTAPKRATRTRCLRRLLCLHPR	47

3	2/1 1	MRRRMQPGTRRNPVVPLR	18
		MSMAILASQSLNGAVVVAHCGHDLQDHSALPSSSCRRLRIDVHVLLRTF	49
		MVCPHWDHLC	10
		MCCCCRFRRARIRVSARSRRRPHTQCSCWSSRW	34
		MALPEGGGLEAARHSY	16
		MPTPTVSRSRQSSKWRVRARDTL	23
		MSFPPTPTVNQLERSSWPAVGNGVSLVLVRTAQLKRYRPHILAFPPWAMSLARTARARCLHARRG-	
		GIPSFLRAPATLLSSVGE	83
		MT AGK SSGVTE	11
		MIAGRSSGVIE MEKKWVINTMRTQMVGANMMIFPNQELTGVWRAVSQAARAKGVSGSRVR	49
		MASVKARRAVLSSSTPQLSDITTKSSPQTRKDGFLRPAALLAAVALM	47
	43	MGPPMYSRSVRALIAFRASGSRSQHWYIPSSVLMSCSVTVESKQRVSYENPKGVFFDVHILRRC-	
	4.4	STRCLGEYWNP	75
	44	MRRAGLRPPFAGFTLNTSFFAIMVVGIGVLLSSNKSSQTERIWFMALLDKERTSFALYPYFDRPEWG-	
	4 -	GTREHASSKESRRPFTPDARSFTSLSTFL	96
	45	MAPVQEYDIEQQTTLCSSESLTVDQESASRSGSPGSPSRGGMDEYDSTSDSSPVSGESPDSAVDSVPT-	
	10	PEEDVPVPSGFVDGKDLSARARSAADTFDPSSLIVLFLRGGGTGAGRVGGKAHP	122
		MGKVPCHMLAQRPDPAILMDPFLTCPVKSSPQGQRVVITPSPRHTPLYPF	50
	47	MPGTLGMILAESQVLKSLSTIQTQSQMSCNQSPLQGLG	38
	40	MSLFIHCTAPSPGPTCRRNTAAHITPTTNAPGDKMAGRRLTMSSVVGSSPPMILKATRAPETPAPY-	
		PASTSSNTLPMPMPPTAAPAKPLTTNAEDAAGPARCVATQPPRMLKNIVWLVVRGLVTEAVKAIRE-	
	40	ATAGLPGSVERPARYWIPLTKFHMCCCQNASAF CHCDCTMGRISASCWLALCSKPRTLSLNC	195
		MTTOPTDKQ	9
		MOAMMYLVIGCVMQMSF	17
		MRHFHISSQHGGLAFARAQTVA	22
		MPDGRSPGVTNRYIPGLPRPVRPLR	25
• • • • • •	m.	MEKVGSRLKSTYCSTATLQSITVSKSPVYPVMRASVAHTTTSPDTGITDTSRPL	54
		MLPGGVAVASTVSLTPAVSA	20
		MVRVPVRMLGSIP	13
		MYVPKPRVAATDGFSTRTEYPCAT	24
	57	MNCRAFATPLVHTAALKIPTTCPEGHMTGPPEEPLRQDSGLVLSKLAVESPLRRAGRTSASR-	
	50	VTRYRSEEPHVQGSRDLVPAGAGQPTRSWSTLVYI	97
		MTPPTVVPKKVWVAVDSTCTSPVTTFLSLPVRLVTIVPNSPRVCWAYAEIGDSRRHPIFL	60
		MSPQAAVSAPQVITLISIGLKMTGSVATASPLRPSAAQSCMGDRWSYR	48
		MOIRINTWARTK	12
	0.1	MSKIREGYSRLASKITLSRLPRTSRGGTHTCKAASPLHMAYWFHQIRRPIQCLYHGDKVKNPRSRST-	
	۲,	2 PAPMVASSSPVQA	80
		3 MCHAAQNATRYQT	13
	0.5	MFWWRCMSPVDRRRIGVNEHGNISESVVEWSSGCCSLRSRSSRSQRSPLVQLQAAENRCSCPPTNILTI	<b>,</b> —
	E	4 NIEKFTVQG	78
	04	# MITHER TAKO	

_	42	_

55	MLQGGAPQVFTNPVLFIHTHPNHRPWGGLKEVNKKTSDSFTPNL	44
	MLASVNGPHP	10
57	MGLQLDIRSGHPEELNL	17
	MCHDPFELTNCKF	13
-	MISTMTTLAQLPCMEK	16
	MILLEQSLVSKYRPDAFLYSRLDAGQVKQEKRARRKIEKEQPGRFPVA	48
	MSGMYPMRSANPHVRVSMTLPKLRDLRRGSFWPQLGREPRGGKSHPAQPQPSFP	54
	MLHGLRDLPGHSQAPYQAVPQGLSRPNTTRLVISRGHAQISGH	43
14	THILIGHTONIE GITD STATE TO THE TANK TO THE TANK TO THE TANK THE TANK TO THE TANK TO THE TANK	

Table 2m (Seq.ID Nos. 713 - 752)

HCV H77 ncOrf's 1 - 3

Genbank Accession No.: AF011751

No.	Sequence	AA
	MGATLHHESLPCEELLSSRRKRLAMALV	28
_	MAMRVAGGRDGSCLPVALGLAGAPQTPGVGRAIWVRSSIPLRAASPTSWGTYRSSAPLLEALPGP-	
2	WRMASGFWKTA	76
3	MOOGTFLVALSLSSFWPCSLA	21
4	MSPMIALTRVLCTRRPMPSCTLRGVSLAFARVTPRGVGWR	40
5	MPAAPRLGLLVSLHQAPSRTSN	22
6	MKALTPAG	8
-	MPTEAASTNAPTAGTTLQDLVALCPQRACVARYIASLPAPWWWERPTGRARLPTAGVQMIRMSSSLTTP-	
7	GHRWAIGSVVPG	81
8	MQHPWPGRTVLCPSSCSSALRGI	23
9	MPSSYSCV	8
	MCITISPLFETGRTTACEIWPLWNQSSSPEWRPSSSRGGQIPPRAVTSSTACPSLPVGARRYC-	
10	LGQPTEWSPRGGGCWRPSRRTPSRREAS	91
11	MGYAGLSTTGPERGPSHHPRVLSSRCIPMWTKTLWAGPLLKVPAH	45
12	MSFPCAGEVIAGVACFRPGPFPT	23
13	MLPPAAVRAPRSRLRTQPRATRCWCSTPLLLQRWALVLTCPRPMGLILISGPG	53
14	MPHPSWASALSLTKQRLRGRDWLCSPLLPLRAPSLCPILTSRRLLCPPPERSPFTARLSPSR	62
15	MPWPTTAVLTCLSSRPAAMLSSCRPMLS	28
16	$ exttt{MLSPGLNAGAGLAGGSQASIDLWHRGSAPPACSTRPSSVSAMTRAVLGMSSRPPRLQLGYERT}$	63
17	MPTFYPRQSRVGRTFLTW	18
18	MGQHPCYTDWALFRMKSP	18
19	MRWKSALSTYRTSSKG	16
20	MQRLSPLLSRPTGRNSRSFGRSTCGISSVGYNTWRACQRCLVTPPLLH	48
21	MARAWRELL	9
22	MFPPRTTCRRAMQPPASLPYSAASL	25
23	MTPLTPSS	8
24	MSGRSPYLQKFCGSLGDSPGPCPSGRGRTTTPR	33
	${ t MAARYHLHGPLLCLRLGKSVRWSSPNQPYLLPWPSLPPKVLAAPQLPALRATIRQHPLSPPLLAAPPT-}$	
25	5 PTLSPILPCPPWRGSLGIRISATGHGRRSVVGPTRKMSCAAQCLIPGQAHSSPRALRKNKNCPSTH	134
	5 MGQKTSVAMPERP	13
	7 MIPAVLTPQSLRATSVRRRQFTNVVTWTPKPAWPSSPSLRGFMLGALLPIQGGKTAATAGAARAAY	66
28	8 MASAHFHSTVTLQVKSIGWPHASENLGSRPCELGDTGPGASALGFCPEEAGLPYVASTSSTGQ	63
2:	9 MPGPAGSGFAYSCSLQG	17
3	0 MNHSPVRNYCLHAESV	16
3:	1 MPGDLGVPPQDC	12

- 44 -

32	MAPVSPWLSA	10
	MGYDDELVPYGSVGGSSAAPDPTSHHGHDRWCSLGSPGGHSVFLHGGELGEGPGSAAAICRRRRGN-	
33	PRHRGKCRPHHGWACWSPYTRRQAEHPTDQHQRQLAHQ	104
34	${\tt MLDCLPRGRNEDHRITQGSCHPDVYQCGPRPCGLARSSRFPLIDTLYLRLLGPLPGHEARRCHSRAPAR}$	69
35	MHVGRPGGRHEHLGARWRRPGCSGRVLPVNRLRGHSGQDRLVREAGNYT	49
	MDEPANSLRLPGEPCFPHALRAGERCSRPRHCHTQQPHCNPAPEATAS-	
36	VDKLGVYHSMLRFLAKGHLGLDMRGAERL	77
37	MPVPDPIARIFHRIGRGAPTQVCAPLQALAAGGGIIQSRTPRVPGGVAITLRARTGRSRVDVHAH	65
	MLLQRVSRPRRRWKEGLLPYP	21
	MPQKTWGPALASLETPGPERPR	22
	MWQVPLQLGSKNKAQTHSNSGRWPAGLVRLVHGWLQRGRHLSQRVSCPAPLVLVLPTPAR-	
40	CRGRHLPPPOPMKVGVNTPAS	83

- 45 -

Table 2n (Seq.ID Nos. 753 - 822) HCV H77 ncOrf's 4 - 6

No.	Sequence	AA
1	MICREASISTLCSHAAHGPFTASRD	25
2	MIPPPAARACKGAQTCVGAPRPIL	24
3	MEWYTPSLSTDAVASGAGLQ	20
4	MLQELPPRPRHTLQECPRGPSPVQRCRWRRQLGQHPQRQ	39
5	MKQWRGYQAALTGPPSIVSH	20
6	MRPASRRARRTSSLSGRR	18
7	MWHPWSGTRHKLLCHKHLLSTRRRQGTCRRWST	33
8	MSGNLEERASPQGLGPHWYTSG	22
9	MRWSSFRPRGRQSSIPH	17
	MATESAPLTRQEQRRHTTRPPPCPVRMPAEATPAGAGGEATSRRGRRPLRAPTYPSDTTQSR-	
10	RTRGRTQDRASRPGMLH	79
11	MWLPDVCGSNQWGRARCCCPPLR	23
12	MPCDDPLYGRDR	12
13	MALPGGGVLEAARHSY	16
14	MPTPAASRSRQNQNQRGRA	19
15	MAALPPLDRSLARTLRARCLQARKGGTPSFLRHAATLLISPGE	43
16	MIGGRSSGSME	11
17	MRTLKKWVISIILAHSVGANMIMLPSQELTGVCLAVSHAALA RGVVGSRVR	52
18	MVQSWSPAARQAARALM	1.7
19	MATRAWGSRSQHW	13
20	MSLSVTVESKQRVSYENPIGVFLDFHACTRNSTRCPGEYWNP	42
21	MRRAGLRPPFSG	12
22	MMVVSIGVTLSSRRSFHTELMWATAFLAWQRTSFAP	36
23	MGSFCSSAAHGVTSAPVQE	19
24	${\tt MPEVEELPKLLVASSAKAVDRVDSVRTTVRFFRGGGTGGDRGGGSGQPWTTGGS}$	54
	$\verb MLPPISCLHRRLASMSSASGESWLAVQVALRDGADSWLAEELAIEGGDPLANLLPAASAVIWEGSVSMD-\\$	-
	${\tt VNTATSGSGSQGNCDPTGYSWSPTLNDTSSRSKGLQGGANLCRRTPSNSVKNSGDGIWHGHLRLSVVIP-}$	-
25	DT	140
	${ t MGNVPLHMFLQVLGPTILIVPFLTCPVISAPQWQRVCIMPSPRQTPLYPRWQDTKGIPGSCGMSLAF-}$	
26	SQVLKSLSTSHIQSQMSLSQEPEHGVVHSELIH	100
27	MAVTRAAASLSGT	13
	MAGSRLTRSSVEGTSPLMILNATRAPATPAPYPARMSTRTFPSPTLPMAAPARPAPTKAVAAP-	
	${\tt GAASWAATHPPNMLKRRVWPVVSGLVTAAVKAINEAMAGLPGSVDRPAKYCIPLMKFHMCFAQKTSSFC-}$	-
28	QLVWTAGVITSAWRDAVCRRPRAFCLNCSASIIPCSMYGKC	173
29	MTTQPVDRQYAARAARTPPTSTQVLVTTSRSADMHVMMYLVIGCVRVTSF	50

- 46 -

30	MYARSLTVVSAGVSSYQAQPAS	22
	MPEGRSPGATNL	12
32	MPGFPLPVLPRR	12
33	MVKVGSRLKSTV	12
34	MRASVDTTTTSPLVGMTDTSRPR	23
35	MPNATSFAASSSHFFFEWQKMRCLPPLITSRGIALP	36
36	MLGWDTVTEPGGVAVASTTSLAPAVSAWSRTVPMPKMDVASVEWHSSQIIMS	52
37	MGLPVVIVLTPVLILGSTPWALDM	24
38	MVVPRFSTGIKSTALATPRVHTAALNRPTACPAGHNSGPPEEPFK	45
39	MGRGESRLPLLSPRRRTGMTSACLVTR	27
40	MTGPLGDAMVLVPAPW	16
	${\tt MHVARKVWVAVDTIWTSPSTWFLSRPVRLVIIHPRRPLVCWAYAVMGASNLHPLETIPSAGPSS-}$	
41	ISWPLRAETGKPLMMSPHAAVSAPHVMSLVSIREKTTGSTATARSRRPLCAQSRRGVRWLYT	126
42	MARSSLVMSNTRVGCTTHMSKMTASRPPRTLRGGTHTCSCASTLVRKY	48
	t MSNIIHKQEQTRASASRRNRRTTYSHLMAQDAMLDPTPYKYCTSTMFWWRWMRPVDKAGRVVKEHGRT-	
43	CHCVVDSSNGLSSDLSLSSRSQRSPRVQLQAASSLCSTPPTYILTLNMV	117
	$ ext{MHLGVIQGPEPHREYVASGCLRKQSVGQSKVLLPTPPMTQGGAPHTLVNPVEFIQVQPN-}$	
44	£	81
45	${\tt MCQLPLVLISWMFCLAPGVRRPTSPAVVRPAFPPVTWVSASTPANSSSTTRTFAQFPTMEKYAMPARTPQ}$	
46	MSMMACGIRSS	11
47		19
48	MYPMRSAKPHVRVSMTLPKLRDLRRGSVGPQLGREPRGDRSHPAHPQPSLP	51
49		43
	$ ext{MRLTDLSQLAVTRAKMEPPLKKGKRKEKKKEKKKEKKKKKKKKKKKKKKRKWLKRPECLPQPSS-}$	
50	VGEEVDAYPCSEQE	76
	$ ext{MRHAVINVSPAVASREPTGQVQPASGRYWSEFELCSYCPVEEVLATYGSPASSGQKPSADAPG-}$	
51	PVSPSSQGRDPKFSEACGHPIDFTWRVTVE	93
52	2 MESLNDWR	8
53	MGHQYHPRPQCGGKHDYVA	19
54	1 MATDVFCPIAKLGFG	15
55	5 MWGRQAASFLYG	12
56	MAVQNLQSVKCDFLLPLASTA	21
5	7 MDHRWFVVRLFPRLY	15
58	8 MVGGASCLERWSGQLASRGAGHRRG	25
5	·-	20
6		61
6	1 MQSPQELGYSEAAEYGSDAGGCIALRHVVRGGNMVPPGGEGY	42
6	<del>-</del>	27
6	3 MEGGFKADQTLPHLVPRWGRGLSPSAHGGLVRYQVRKVLPTLLCLG	46
6	4 MSEARKDALPKFKMVLAHGKPRGVHVRS	28

- 47 -

	${\tt MSSPLDHLEGDSLAVKGDLSGGGQSNLLDVRMGHSDGARRGSSGEHNQSRPRSLCLVKDSADAQDGC-}$	
65	GIRGVALVTNYYVISTS	84
	MGLGHVSTKAQRCSNRGVEHQHLVALGCVRSRDLGALTAAGGSMQVGHLEALGHCWWR-	
66	GVVREHRGSHGCP	71
67	MVIHIGASKRP	11
68	MTSGYLPR	8
69	MFAEAISGAEQGVVAHPSDDTRGRSAHFGESS	32
	MTRYMAGIDRTIAVLRRPVAPGREGKQLTNKKDRPAQVPHVEGRAEGGAPDKQIDMTSKLRCGEFAVP-	
70	GGHRGGHRHPTPRGVTLANARDTPRSVQDGIGRLVHNTRVRAIIGDMVKPRGIAHLVG	126

Using Web-based computer software for the prediction of possible CTL epitopes for different HLA-alleles, every single ORF was analyzed for the existence of (possibly) encoded epitopes resulting in a (relative) cut-off value of 10 or more (according to Parker et al, mentioned above).

Strain	Frames	No. of epitopes**	Epitope sequence listed in table 4
1a	1-3	232	Table 4a
	4-6	511	Table 4b
1b	1-3	238	Table 4c
	4-6	512	Table 4d
2a	1-3	238	Table 4e
	4-6	626	Table 4f
2b	1-3	268	Table 4g
	4-6	561	Table 4h
3a	1-3	219	Table 4i
	4-6	528	Table 4j
3b	1-3	231	Table 4k
	4-6	507	Table 4I
H77	1-3	293	Table 4m
	4-6	711	-Table 4n

Table 3: Number of epitopes (\*\* for eight different HLA-alleles)

In the following table 4, the exact (minimum) sequence of the eptiopes found with respect to the HLA alleles tested are given together with a (relative) score identifying the ability of the given epitope to be efficient in binding the given HLA type.

Table 4a
1a (1-3)

•	•_	Ghwai n	ORF	Start	AA	HLA	Peptide sequence	Score
	<i>1</i> 0.	Strain HCV-1a	1	14	10	в8	ELLSSRRKRL	16.000
	L		1	17	9	в8	SSRRKRLAM	20.000
	2 3	HCV-1a HCV-1a	1	16	10	B3501	LSSRRKRLAM	10.000
	4	HCV-1a	1	17	9	в3501	SSRRKRLAM	30.000
	* 5	HCV-1a	1	17	9	в7	SSRRKRLAM	15.000
	5 6	HCV-1a	1	2	9	в7	GATLHHESL	12.000
	7	HCV-1a	1	15	9	A0201	LLSSRRKRL	36.316
	, 8	HCV-1a	2	43	10	в4403	AASPTSWGTY	12.000
	9	HCV-1a	2	53	10	B3501	RSSAPLLEAL	10.000
	10	HCV-1a	2	64	10	в3501	GPWRMASGFW	10.000
	11	HCV-1a	2	64	9	в3501	GPWRMASGF	20.000
	12	HCV-1a	2	44	9	в3501	ASPTSWGTY	10.000
	13	HCV-1a	2	26	9	в3501	TPGVGRAIW	10.000
	1.4	HCV-1a	2	5	10	в7	AAGGRDGSCL	36.000
	15	HCV-1a	2	32	10	в7	AIWVRSSIPL	12.000
	16	HCV-1a	2	6	9	в7	AGGRDGSCL	12.000
	17	HCV-1a	2	51	9	A24	TYRSSAPLL	200.000
	18	HCV-1a	2	12	9	A24	SCLPVALGL	10.080
	19	HCV-1a	2	32	10	A0201	AIWVRSSIPL	24.380
	20	HCV-1a	2	67	10	A0201	RMASGFWKTA	23.178
	21.	HCV-1a	2	67	9	A0201	RMASGFWKT	76.694
	22	HCV-1a	2	58	10	A1.	LLEALPGPWR	18.000
	23	HCV-la	3	9	10	A0201	ALSLSSFWPC	70.794
	24	HCV-1a	3	1	10	A0201	MQQGTFLVAL	32.181
	25	HCV-1a	3	11	10	A0201	SLSSFWPCSL	21.362
	26	HCV-1a	3	2	9	A0201	QQGTFLVAL	18.930
	27	HCV-1a	4	16	9	В8	SCTLRGASL	16.000
	28	HCV-1a	5	7	10	B3501	RSFDVTSICL	20.000
	29	HCV-1a	5	19	10	в3501	APPSVRPSTW	10.000
	30	HCV-1a	5	49	10	в7	TGRRKVAIAL	40.000
	31	HCV-1a	5-	4-			SPRRSFDVT	20.000
	32	HCV-1a	5	8	9	A24	SFDVTSICL	20.000 226.014
	33	HCV-1a	5	36	10	A0201	FLSANCLPSL	21.362
	34	HCV-1a	5	33	10	A0201	GLSFLSANCL	69.552
	35	HCV-1a	5	15	9	A0201	CLSGAPPSV	20.000
	36	HCV-1a	6	11	10		GFSITTSSTL	120.000
	37	HCV-1a	7	24	10		CPRRVCVVRY RPPTAGVKMI	16.000
	38	HCV-1a	7	51	10	B3501 B3501	RPPTAGVKM	80.000
	39	HCV-1a	7	51	9 9	в3501	CVVRYIASL	20.000
	40	HCV-1a		29	. 9	в7 в7	RPPTAGVKM	20.000
	41.	HCV-1a		51 12	9	в7	TAGTTPQNL	12.000
	42	HCV-1a		36	10	_	SLPAPWWWER	36.000
	43 44	HCV-1a	_	32	10		RYIASLPAPW	18.000
	45	HCV-1a HCV-1a		58	9	A24	KMIRTSSSL	12.000
	46	HCV-1a		22	10		VLCPRRVCVV	111.499
	47	HCV-1a		21	10		AVCLPRRVCV	22.517
	48	HCV-1a		58	10			18.837
	49	HCV-1a	_	19	10			13.910
	-2	11C V - I a	. ,					

50	HCV-1a	7	22	9	A0201	VLCPRRVCV	118.238
51	HCV-1a	7	58	9	A0201	KMIRTSSSL	53.999
52	HCV-1a	7	67	9	A0201	TIPGHRWAI	10.759
53	HCV-1a	8	10	10	A0201	VLPSSCSSA	27.026
54	HCV-1a	8	11	10	A24	LYPSSCSSAL	300.000
55	HCV-la	8	3	9	в7	HPWPGRTVL	120.000
56	HCV-1a	8	12	9	в7	YPSSCSSAL	80.000
57	HCV-1a	9	15	9	в7	TACEIWPWL	12.000
58	HCV-1a	9	1	9	A24	MFITISLLF	21.000
59	HCV-1a	9	15	9	A0201	TACEIWPWL	11.374
60	HCV-1a	9	2	10	A0201	FITISLLFGT	62.877
61	HCV-1a	9	7	10	A0201	LLFGTGRTTA	31.249
62	HCV-1a	10	1	10	B4403	MEWSPRVGGC	12.000
63	HCV-1a	11	13	10	A24	RGPSRHPRVL	27.000
64	HCV-1a	11	5	9	A3	GLSTTGPER	12.000
65	HCV-1a	11	14	9	в7	GPSRHPRVL	80.000
66	HCV-1a	11	18	9	в7	HPRVLSSCR	20.000
67	HCV-1a	11	18	10	в7	HPRVLSSCRI	80.000
68	HCV-1a	11	14	9	B3501	GPSRHPRVL	20.000
69	HCV-1a	11.	18	10	в3501	HPRVLSSRCI	24.000
70	HCV-1a	13	9	10	B3501	APRSRLHMQL	60.000
71	HCV-1a	13	8	9	B3501	KAPRSRLHM	12.000
72	HCV-1a	13	9	10	в8	APRSRLHMQL	16.000
73	HCV-1a	13	6	9	в8	AAKAPRSRL	16.000
74	HCV-1a	13	9	10	в7	APRSRLHMQL	2.400.000
75	HCV-1a	13	5	10	в7	AAAKAPRSRL	81.000
76	HCV-1a	13	6	9	в7	AAKAPRSRL	81.000
77	HCV-1a	15	1	10	в3501	MPHPSWASAL	20.000
78	HCV-1a	15	36	10	в3501	CPIPTSRRLL	20.000
79	HCV-1a	15	3	10	B3501	HPSWASALSL	20.000
80	HCV-1a	15	46	9	B3501	CPPPERSLF	30.000
81	HCV-1a	15	36	9	B3501	CPIPTSRRL	20.000
82	HCV-1a	15	36	10	в7	CPIPTSRRLL	120.000
83	HCV-1a	15	1	10	в7	MPHPSWASAL	80.000
84	HCV-1a	15	3	10	В7	HPSWASALSL	80.000
	-HCV-la	- 15-	-14	-10-	B7	KQRLRGRDWL	60.000
86	HCV-1a	15	8	10	в7	SALSLTKQRL	12.000
87	HCV-1a	15	36	9	в7	CPIPTSRRL	80.000
88	HCV-1a	15	9	9	в7	ALSLTKQRL	12.000
89	HCV-1a	15	22	9	A0201	WLCSPPPPL	98.267
90	HCV-1a	15	9	9	A0201	ALSLTKQRL	21.362
91	HCV-1a	16	11	10	B3501	CPSSRPAAML	20.000
92	HCV-1a	16	11	9	B3501	CPSSRPAAM	40.000
93	HCV-1a	16	11	9	B3501	MPWPTTAVL	20.000
94	HCV-1a	16	11	9	B3501	RPAAMLSSW	20.000
95	HCV-1a	16	11	10	в7	CPSSRPAAML	120.000
96	HCV-1a	16	17	10	В7	AAMLSSWQPM	27.000
97	HCV-1a	16	1	9	в7	MPWPTTAVL	80.000
98	HCV-1a	16	11	9	в7	CPSSRPAAM	20.000
99	HCV-1a	16	18	9	A0201	AMLSSWQPM	22.569
100	HCV-1a	17	52	9	B3501	RPPRLQLGY	80.000
101	HCV-1a	17	50	9	B3501	SSRPPRLQL	15.000
102	HCV-1a	17	3	10	) B7	SPALNVGAGL	80.000
103	HCV-1a	17	38	10	) B7	SVSAMTQAVL	20.000

104	HCV-1a	17	13	10	в7	AGGSQASTDL	12.000
105	HCV-1a	17	47	10	в7	LGMSSRPPRL	12.000
106	HCV-1a	17	33	10	в7	STRPSSVSAM	10.000
107	HCV-1a	17	50	9	в7	SSRPPRLQL	90.000
108	HCV-1a	17	48	9	A0201	GMSSRPPRL	15.428
1.09	HCV-1a	18	7	10	A0201	RQSRVGRTFL	11.913
110	HCV-1a	18	8	9	A0201	QSRVGRTFL	60.000
111	HCV-1a	18	5	10	в7	YPRQSRVGRT	20.000
112	HCV-1a	18	5	10	в8	YPRQSRVGRT	16.000
113	HCV-1a	18	8	9	B3501	QSRVGRTFL	15.000
114	HCV-1a	18	3	10	B3501	SPALNVGAGL	20.000
115	HCV-1a	19	7	10	A1	YTDWALFRMK	25.000
116	HCV-1a	19	6	10	A24	CYTDWALFRM	30.000
117	HCV-1a	19	4	9	в7	HPCYTDWAL	80.000
118	HCV-1a	19	4	9	B3501	HPCYTDWAL	20.000
119	HCV-1a	19	4	10	B3501	HPCYTDWALF	30.000
120	HCV-1a	20	6	10	A3	ALSTYRTSSK	20.000
121	HCV-1a	21	1	9	в7	MARAWRELL	180.000
122	HCV-1a	21	1	9	в8	MARAWRELL	16.000
123	HCV-1a	22	3	10	в3501	PPRTTCRRAM	12.000
124	HCV-1a	22	3	10	в7	PPRTTCRRAM	30.000
125	HCV-1a	22	16	1.0	в7	ASLPYSAASL	12.000
126	HCV-1a	22	10	9	в7	RAMQLPASL	36.000
127	HCV-1a	22	10	9	A24	RAMQLPASL	14.400
128	HCV-1a	22	17	9	A0201	SLPYSAASL	21.362
129	HCV-1a	23	19	9	A24	RYGGCLQRN	12.000
130	HCV-1a	23	19	10	A24	RYGGCLQRNT	12.000
131	HCV-1a	23	3	10	в8	TPRAPVPPFL	16.000
132	HCV-1a	23	3	9	в8	TPRAPVPPF	60.000
133	HCV-1a	23	3	10	B3501	TPRAPVPPFL	60.000
134	HCV-1a	23	15	10	в7	TTRSRYGGCL	40.000
135	HCV-1a	23	3	10	в7	TPRAPVPPFL	800.000
136		25	33	9	B3501	WPSSPPEAL	20.000
137		25	72	9	B3501	SPIPPCPPW	10.000
138		25	96	10	B3501	RSVVRPTRRM	20.000
139		2.5	- · 1.6	- 10	B8	LGRSGRWSSL	16.000
140		25	2	10	в8	AARFHLQSPL	16.000
141		25	2	10	в7	AARFHLQSPL	360.000
142		25	16	10	в7	LGRSGRWSSL	40.000
143		25	65	10	в7	APPTPTLSPI	24.000
1.44		25	123	10	в7	APRKNRNCPS	12.000
145		25	40	10	в7	ALAAPQLPAL	12.000
146		25	75	10	в7	PPCPPWRGSL	12.000
147		25	33	9	в7	WPSSPPEAL	120.000
148			63	9	в7	LAAPPTPTL	18.000
149		25	41	9	в7	LAAPQLPAL	12.000
150			50	9	в7	RATIRQHPL	12.000
151			4	9	A24	RFHLQSPLL	40.000
152			54	9	A24	RQHPLSPPL	11.520
153			83	9	A24	SLGIRILAT	17.140
154			104	9	A24	RMSCAAQCL	15.428
155			62	9	A24	LLAAPPTPT	12.668
156			45	9	A24	QLPALRATI	10.433
1.5			40	10		ALAAPQLPAL	49.134
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158	HCV-1a	25	62	10	A0201	LLAAPPTPTL	36.316
159	HCV-1a	27	33	10	B3501	WPSSPSPRGF	20.000
160	HCV-1a	27	2	10	B3501	IPAALTPQSL	20.000
161	HCV-1a	27	38	10	B3501	SPRGFMLGAL	60.000
162	HCV-1a	27	36	9	B3501	SPSPRGFML	20.000
163	HCV-1a	27	35	9	B3501	SSPSPRGFM	10.000
164	HCV-1a	27	38	10	B8	SPRGFMLGAL	16.000
165	HCV-1a	27	36	10	B8	SPSPRGFML	16.000
166	HCV-1a	27	38	10	в7	SPRGFMLGAL	800.000
167	HCV-1a	27	2	10	в7	IPAALTPQSL	80.000
168	HCV-1a	27	15	10	в7	SVRRRQSTNV	10.000
169	HCV-1a	27	36	9	в7	SPSPRGFML	80.000
170	HCV-1a	27	38	9	в7	SPRGFMLGA	20.000
171	HCV-1a	27	42	9	A0201	FMLGALLPI	294.957
172	HCV-1a	28	48	9	B4403	EEAGLPYVA	12.000
173	HCV-1a	28	48	10	B4403	EEAGLPYVAS	12.000
174	HCV-1a	28	31	1.0	B4403	CELGDTGPGA	12.000
175	HCV-1a	28	37	10	B3501	GPGASALGFW	10.000
176	HCV-1a	28	19	10	B3501	WPHASENLGY	60.000
177	HCV-1a	28	3	10	в7	SAHFHSTVTL	12.000
178	HCV-1a	28	44	9	A24	GFWPEEAGL	24.000
179	HCV-1a	28	25	9	A0201	NLGYRPCEL	21.362
180	HCV-1a	28	46	9	A1	WPEEAGLPY	56.250
181	HCV-1a	29	3	9	B4403	GPAGSGFAY	13.500
182	HCV-1a	29	1	9	B3501	MPGPAGSGF	20.000
183	HCV-1a	29	3	9	в3501	GPAGSGFAY	40.000
184	HCV-1a	29	5	10	в7	AGSGFAYSCL	12.000
185	HCV-1a	33	50	10	B4403	GEGPGSAAAI	12.000
186	HCV-1a	33	47	10	B4403	GELGEGPGSA	12.000
187	HCV-1a	33	47	9	в4403	GELGEGPGS	12.000
188	HCV-1a	33	5	9	B4403	DELVPYDGV	24.000
189	HCV-1a	33	36	9	B3501	SPGGHSVFL	20.000
190	HCV-1a	33	17	10	B7	SAAPDPTSHL	18.000
191	HCV-1a	33	36	9	в7	SPGGHSVFL	80.000
192	HCV-1a	33	18	9	в7	AAPDPTSHL	54.000
-1-93			41	. 9	В7	SVFLHGGEL	20.000
194		33	33	10	A0201	SLGSPGGHSV	69.552
195		34	14	9	в8	GARWRRPGC	16.000
196		34	23	10	в7	FGRVLPVNRL	60.000
197		34	19	9	в7	PRGCFGRVL	80.000
198		34	5	9	в7	RPGGRHEHL	80.000
199		35	5	10	в3501	LAKGHLGLDM	18.000
200		35	1	10		MLRFLAKGHL	40.000
201		35	11	9	A3	GLDMRGVER	12.000
202		35	3	10		RFLAKGHLGL	60.000
203		35	4	9	A0201	FLAKGHLGL	98.000
204		35	11	9	A1	GLDMRGVER	10.000
205		35	19	9	B3501	RPGCFGRVL	40.000
206		35	5	9	в3501		40.000
207		36	15	9	B4403		12.000
208		36	17	9	в3501		60.000
209		36	4	10		VCRGIRGDKA	16.000
210			- 16	10		GLPLRDGYDY	36.000
211		37	3	9	в3501		20.000
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- 53 -

212	HCV-1a	37	1	10	в7	MPVPGPIARI	12.000
212	HCV-1a	39	8	10	в3501	RPRRRWKEGL	120.000
214	HCV-1a	39	8	10	в7	RPRRRWKEGL	800.000
	HCV-1a	40	1	10	B3501	MPOKTWGTAL	20.000
215	HCV-1a	40	1	10	в7	MPOKTWGTAL	80.000
216		40	4	10	A0201	KTWGTALASL	19.824
217	HCV-1a	40	12	9	A1	SLETPGPER	18.000
218	HCV-1a	41	26	10	A0201	GLVRLVHGWL	15.274
219	HCV-1a	41	22	9	A24	RWPAGLVRL	12.000
220	HCV-1a	41	65	9	A3	HLPPPOPVK	45.000
221	HCV-1a	41	29	9	A3	RLVHGWLQR	12.000
222	HCV-1a		27	9	в7	LVRLVHGWL	200.000
223	HCV-1a	41	47	9	в7	CPAPLDLVL	80.000
224	HCV-1a	41		10	в7 В7	TPACCRGRHL	80.000
225	HCV-1a	41	57		в7 В7	SORVSCPAPL	40.000
226	HCV-1a	41	42	10		RVSCPAPLDL	20.000
227	HCV-1a	41	44	10	В7	TPACCRGRHL	16.000
228	HCV-1a	41	57	10	B8	CPAPLDLVL	20.000
229	HCV-1a	41	47	9	B3501		20.000
230	HCV-1a	41	57	10	в3501	TPACCRGRHL	30.000
231	HCV-1a	42	3	9	B7	VVQQPPGPPL	30.000
232	HCV-1a	42	2	10	в7	SVVQPPGPPL	30.000

- 54 -

Table 4b
1a (4-6)

No.	Strain	ORF	Start	AA	HLA	Peptide seguence	Score
1	HCV-1a	1	15	9	A24	TYVGAPRPI	75.000
2	HCV-1a	1	16	9	в7	YVGAPRPIL	45.000
3	HCV-la	1	8	9	B_3501	RACRGAQTY	12.000
4	HCV-1a	1	15	10	A24	TYVGAPRPIL	300.000
5	HCV-1a	1	6	10	в8	AARACRGAQT	16.000
6	HCV-1a	2	11	9	в7	GAVASGAGL	12.000
7	HCV-1a	3	5	9	В7	LPPRPRHTL	180.000
8	HCV-1a	3	8	9	в7	RPRHTLQGC	20.000
9	HCV-1a	3	5	9	B_3501	LPPRPRHTL	20.000
10	HCV-1a	3	8	9	B_3501	RPRHTLQGC	12.000
11	HCV-1a	3	8	10	в7	RPRHTLQGCL	800.000
12	HCV-1a	3	8	10	B_3501	RPRHTLQGCL	120.000
13	HCV-1a	3	3	10	B_4403	QELPPRPRHT	16.000
14	HCV-1a	4	10	9	A_0201	ALTSPPSIV	28.516
15	HCV-1a	4	2	9	A_0201	KQWRGYQAA	21.949
16	HCV-1a	4	2	10	A_0201	KQWRGYQAAL	62.920
17	HCV-1a	5				NO HITS	
18	HCV-1a	6	12	10	A_0201	LLCHKRPPST	12.668
19	HCV-1a	6	3	10	в7	HPWSGTRHKL	120.000
20	HCV-1a	6	3	10	B_3501	HPWSGTRHKL	20.000
21	HCV-1a	7	4	9	в7	GPWCFCRCL	80.000
22	HCV-1a	7	18	9	в7	EPPGSSGAL	80.000
23	HCV-1a	7	4	9	B_3501	GPWCFCRCL	20.000
24	HCV-1a	7	18	9	B_3501	EPPGSSGAL	20.000
25	HCV-1a	7	18	10	в7	EPPGSSGALL	80.000
26	HCV-1a	7	18	10	B_3501	EPPGSSGALL	20.000
27	HCV-1a	7	4	10	B_3501	GPWCFCRCLW	10.000
28	HCV-1a	7	23	10	B_4403	SGALLVERSY	18.000
29	HCV-1a	8	12	9	A_0201	QGLDLHWYT	30.440
. 30	HCV-1a	_ 8	, 6,	_9	в7	AERASPQGL	12.000
31	HCV-1a	8	8	9	В7	RASPQGLDL	12.000
32	HCV-1a	8	10	9	B_3501	SPQGLDLHW	10.000
33	HCV-1a	8	10	10	B_3501	SPQGLDLHWY	60.000
34	HCV-1a	8	10	10	B_4403	SPQGLDLHWY	13.500
35	HCV-1a	9	2	9	A1	VTELAPSTR	22.500
36	HCV-1a	9	51	9	в7	APTYPSDTM	90.000
37	HCV-1a	9	41	9	в7	TSRRRCRPL	40.000
38	HCV-1a	9	41	9	B8	TSRRRCRPL	80.000
39	HCV-1a	9	51	9	B_3501	APTYPSDTM	40.000
40	HCV-1a	9	41	9	B_3501		15.000
41	HCV-1a	9	2	10	A1.	VTELAPSTRR	22.500
42	HCV-1a	9	40	10	в7	ATSRRRCRPL	12.000
43	HCV-1a	9	45	10	B_3501		12.000
44	HCV-1a	9	50	10	B_3501		12.000
45	HCV-1a	10	14	9	В7	SAGCCCPPL	12.000
46	HCV-1a	11	3	10	A1	CGDPLYGRDR	12.500
47	HCV-1a	12	8	9	A1	VLEAARHSY	45.000
48	HCV-1a	12	1	9	в7	MALPGGGVL	12.000

49	HCV-1a	12	2	10	A_0201	ALPGGGVLEA	11.426
50	HCV-1a	13	2	9	A_0201	RLTDLSQLA	20.369
51	HCV-1a	13	71	9	A_0201	SVYPNLHRL	13.757
52	HCV-1a	13	68	9	A24	RGRSVYPNL	11.200
53	HCV-1a	13	68	9	в7	RGRSVYPNL	40.000
54	HCV-1a	13	71	9	в7	SVYPNLHRL	20.000
55	HCV-1a	13	2	10	A_0201	RLTDLSQLAV	285.163
56	HCV-1a	13	70	10	A24	RSVYPNLHRL	12.000
57	HCV-1a	13	11	10	в7	VTRAKMEPPL	40.000
58	HCV-1a	13	70	10	B_3501	RSVYPNLHRL	10.000
59	HCV-1a	14	6	9	в7	ASRSRQNQI	12.000
60	HCV-1a	14	6	9	B8	ASRSRQNQI	20.000
61	HCV-1a	15	29	9	A24	SFLRHAATL	30.000
62	HCV-1a	15	7	9	в7	LARSLARTL	120.000
63	HCV-1a	15	30	9	в7	FLRHAATLL	40.000
64	HCV-1a	15	3	9	в7	ALPPLARSL	12.000
65	HCV-1a	15	7	9	B8	LARSLARTL	16.000
66	HCV-1a	15	29	10	A24	SFLRHAATLL	30.000
67	HCV-1a	15	11	10	в7	LARTLRARCL	120.000
68	HCV-1a	15	2	10	в7	AALPPLARSL	36.000
69	HCV-1a	15	11	10	В8	LARTLRARCL	320.000
70	HCV-1a	16				No hits	
71	HCV-1a	17	13	9	A_0201	CLAVSHAAL	21.362
72	HCV-1a	17	1	9	A_0201	MIMLPSQEL	18.476
73	HCV-1a	17	2	9	A_0201	IMLPSQELT	16.588
74	HCV-1a	17	1	9	В7	MIMLPSQEL	18.000
75	HCV-1a	17	7	9	B_4403	QELTGVCLA	24.000
76	HCV-1a	17	3	. 10	A_0201	MLPSQELTGV	271.948
77	HCV-1a	17	7	10	B_4403	QELTGVCLAV	12.000
78	HCV-1a	18	18	9	A_0201	YLVIASVKA	22.853 360.000
79	HCV-1a	18	58	9	в7	AARQAARAL	36.000
80	HCV-1a	18	30	9	B7	AASSWTPAL	20.000
81.	HCV-1a	18	19	9	B7	LVIASVKAL	12.000
82	HCV-1a	18	21	9	B7	IASVKALRL ÁARQAARÁL	16.000
83	HCV-1a	18	58	9	B8	IASVKALRL	16.000
84	HCV-1a	18	21	9	в8 в_4403		12.000
85	HCV-1a	18	16	9 10	A_0201		226.014
86	HCV-1a	18 18	18 58	10	<u>н_</u> 0201 В7	AARQAARALM	135.000
87	HCV-1a	18	29	10	в7	LAASSWTPAL	12.000
88	HCV-1a HCV-1a	18	58	10	в_3501		18.000
89 90	HCV-1a	18	12	10	B_3501		12.000
91	HCV-1a	18	46	10	B_3501		10.000
92	HCV-1a	19	20			NO HITS	,
93	HCV-1a	20	15	9	A_0201	YENPIGVFL	10.509
94	HCV-1a	20	13	9	A_0201		10.126
95	HCV-1a	20	14	9	A24	SYENPIGVF	150.000
96	HCV-1a	20	2	9	А3	SLSVTVESK	60.000
97	HCV-1a		17	9	B_3501	NPIGVFLDF	20.000
98	HCV-la		31	9	в_3501	NSTRCPGEY	10.000
99	HCV-1a		7	9	в_4403	VESKQRVSY	120.000
100			17	9	B_4403	NPIGVFLDF	11.250
-							

							90.000
101	HCV-1a	20	6	10		TVESKQRVSY	420.000
102	HCV-1a	20	14	10		SYENPIGVFL	10.000
103	HCV-1a	20	13	10		VSYENPIGVF	10.000
104	HCV-1a	21				NO HITS NO HITS	
105	HCV-1a	22				NO HITS	
106	HCV-la	23	1	9	A1	MPEVEELPK	22.500
107	HCV-la	24	1 17	9	A_0201	KAVDRVDSV	15.623
108	HCV-1a	24	11	9	A_0201 A_0201	LVASSAKAV	10.346
109	HCV-1a	24 24	9	9	A3	KLLVASSAK	90.000
110	HCV-1a	24	5	9	B_4403	EELPKLLVA	36.000
111	HCV-1a	24	10	10	A_0201	LLVASSAKAV	118.238
112	HCV-1a	24	9	10	A_0201	KLLVASSAKA	64.336
113	HCV-1a HCV-1a	24	1	10	в7	MPEVEELPKL	24.000
114	HCV-1a	24	5	10	в_4403	EELPKLLVAS	24.000
115 116	HCV-1a	24	23	10	B_4403	DSVRTTVRFF	18.000
117	HCV-1a	25	46	9	A1	GGDPLANLR	12.500
117	HCV-1a	25	82	9	A1	NCDPTGYSW	10.000
119	HCV-1a	25	60	9	A_0201	VIWEGSVSM	39.518
120	HCV-1a	25	7	9	A_0201	CLHRRLASM	11.426
121	HCV-1a	25	102	9	A24	KGLQGGANL	12.000
122	HCV-1a	25	23	9	A3	WLAVQVALR	12.000
123	HCV-1a	25	42	9	в7	LATEGGDPL	12.000
124	HCV-1a	25	54	9	B_3501	RPAASAVIW	20.000
125	HCV-1a	25	43	10	A1	ATEGGDPLAN	11.250
126	HCV-1a	25	29	10	A_0201	ALRDGADSWL	36.611
127	HCV-1a	25	103	10	A3	GLQGGANLCR	36.000
128	HCV-1a	25	1	10	A3	MLPPISCLHR	12.000
129	HCV-1a	25	29	10	в7	ALRDGADSWL	120.000
130	HCV-1a	25	59	10	в7	AVIWEGSVSM	15.000
131	HCV-1a	25	29	10	в8	ALRDGADSWL	12.000
132	HCV-1a	25	20	10	B_4403	GESWLAVQVA	18.000
133	HCV-1a	26	12	9	A_0201	VLGPTILIV	111.499
134	HCV-1a	26	62	9	A_0201	GMSLAFSQV	95.441
135	HCV-1a	26	~22	9.	A_0201		~52561 47001
136	HCV-1a	26	9	9	A_0201	FLQVLGPTI	47.991
137	HCV-1a	26	16	9	A_0201	TILIVPFLT	21.989 19.425
138	HCV-1a	26	113	9	A_0201	LLSMAVTRA	16.047
139		26	17	9	A_0201	ILIVPFLTC	11.487
140		26	101	9	A_0201	WCSRLRSWV IVPFLTCPV	10.346
141		26	19	9	A_0201	AFSQVLKSL	28.000
142		26	66	9	A24 A3	RLRSWVTVR	36.000
143			104	9 9	A3	SLAFSQVLK	20.000
144			64	9	в7	APQWQRVCM	90.000
145			30 39	9	В7 В7	MPSPRQTPL	80.000
146			59 57	9	в7	IPGSCGMSL	80.000
147			117	9	в7	AVTRAAASL	60.000
148			110	9	В7 В7	TVRLLSMAV	10.000
149 150			39	9	в8	MPSPRQTPL	16.000
150			30	9	в_3501		40.000
15:			39	9	B_3501		20.000
152	ncv-Ia	. 20	رر	,	000		

153	HCV-1a	26	14	9	B_3501	GPTILIVPF	20.000
154	HCV-1a	26	57	9	B_3501	IPGSCGMSL	20.000
155	HCV-1a	26	25	9	в_3501	CPVISAPQW	10.000
156	HCV-1a	26	106	9	в_3501	RSWVTVRLL	10.000
157	HCV-1a	26	95	10	A1	HSELIHWCSR	13.500
158	HCV-1a	26	84	10	A_0201	SLSQEPEHGV	69.552
159	HCV-1a	26	112	10	A_0201	RLLSMAVTRA	42.278
160	HCV-1a	26	3	10	A_0201	KVPLHMFLQV	40.471
161	HCV-1a	26	9	10	A_0201	FLQVLGPTIL	40.289
162	HCV-1a	26	27	10	A_0201	VISAPQWQRV	27.638
163	HCV-1a	26	38	10	A_0201	MMPSPRQTPL	26.228
164	HCV-1a	26	62	10	A_0201	GMSLAFSQVL	24.037
165	HCV-1a	26	11	10	A_0201	QVLGPTILIV	21.234
166	HCV-1a	26	104	10	A24	RLRSWVTVRL	11.200
167	HCV-1a	26	46	10	A3	PLYPRWQDTK	45.000
168	HCV-1a	26	14	10	в7	GPTILIVPFL	80.000
169	HCV-1a	26	4	10	в7	VPLHMFLQVL	80.000
170	HCV-1a	26	48	10	в7	YPRWQDTKGI	80.000
171	HCV-1a	26	30	10	в7	APQWQRVCMM	60.000
172	HCV-1a	26	104	10	в7	RLRSWVTVRL	40.000
173	HCV-1a	26	65	10	в7	LAFSQVLKSL	12.000
174	HCV-1a	26	116	10	в7	MAVTRAAASL	12.000
175	HCV-1a	26	30	10	B_3501	APQWQRVCMM	40.000
176	HCV-1a	26	39	10	B_3501	MPSPRQTPLY	40.000
177	HCV-1a	26	48	10	B_3501	YPRWQDTKGI	36.000
178	HCV-1a	26	4	1.0	B_3501	VPLHMFLQVL	20.000
179	HCV-la	26	14	10	B_3501	GPTILIVPFL	20.000
180	HCV-1a	26	96	10	B_4403	SELIHWCSRL	24.000
181	HCV-1a	26	87	10	B_4403	QEPEHGVVHS	12.000
182	HCV-1a	27	70	9	A1	ATHPPNMLK	25.000
183	HCV-1a	27	75	9	A_0201	NMLKRRVWL	313.968
184	HCV-1a	27	127	9	A_0201	KVSSFCQLV	80.941
185	HCV-1a	27	76	9	A_0201	MLKRRVWLV	71.386
186	HCV-1a	27	80	9	A_0201	RVWLVVSGL	35.683
187	HCV-1a	27	95	 9	A_0201	AINEAMAGL	27.699
188		27	82	9	A_0201	WLVVSGLVT	14.054
189		27	112	9	A24	KYCIPLMKF	220.000
190		27	80	9	A24	RVWLVVSGL	11.200
191		27	123	9	A24	CFAQKVSSF	10.000
192		27	45	9	A3	TLPMAAPAK	20.000
193		27	30	9	в7	APYPARMSM	90.000
194		27	109	9	в7	KPAKYCIPL	80.000
195		27	69	9	в7	AATHPPNML	54.000
196		27	80	9	в7	RVWLVVSGL	20.000
190			28	9	в7	TPAPYPARM	20.000
198			92	9	в7	AVKAINEAM	15.000
198			95	9	в7	AINEAMAGL	12.000
200			76	9	в8	MLKRRVWLV	24.000
			30	9	B_3501		40.000
201			28	9	B_3501		40.000
202				9	B_3501		40.000
203			109	9	B_3501		20.000
204	HCV-1a	27	105	Э	P_300T	. Co v Divi Pilit	<b>20 2</b>

	_			0	n 2501	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	12.000
205	HCV-1a	27	24	9	B_3501	RAPATPAPY	10.000
206	HCV-1a	27	9	9	B_3501	SSVEGTSPL GSVDKPAKY	13.500
207	HCV-1a	27	105	9	B_4403	ATHPPNMLKR	12.500
208	HCV-1a	27	70	10	A1 A_0201	NMLKRRVWLV	3.206.057
209	HCV-1a	27	75	10	_	WLVVSGLVTA	52.561
210	HCV-1a	27	82	10	A_0201 A_0201	GLVTAAVKAI	23.995
211	HCV-1a	27	87	10	A_0201 A_0201	ILNATRAPAT	12.668
212	HCV-1a	27	19	10 10	A_0201 A_0201	VVSGLVTAAV	10.346
213	HCV-1a	27	84		A_0201 A24	KAINEAMAGL	12.000
214	HCV-1a	27	94	10 10	B7	SMRTFPSPTL	60.000
215	HCV-1a	27	37	10	в7	KPAKYCIPLM	20.000
216	HCV-1a	27	109 68	10	B7	WAATHPPNML	18.000
217	HCV-1a	27 27	94	10	в7	KAINEAMAGL	12.000
218	HCV-1a	27	125	10	в7	AQKVSSFCQL	12.000
219	HCV-1a	27	109	10	B_3501	KPAKYCIPLM	80.000
220	HCV-1a		115	10	B_3501	IPLMKFHICF	20.000
221	HCV-la	27 27	32	10	B_3501	YPARMSMRTF	20.000
222	HCV-1a		9	10	B_3501	SSVEGTSPLM	20.000
223	HCV-1a	27 27	8	10	B_3501	RSSVEGTSPL	10.000
224 225	HCV-1a HCV-1a	27	97	10	B_4403	NEAMAGLPGS	12.000
226	HCV-1a	28	44	9	A1	SADMHVMMY	125.000
227	HCV-1a	28	15	9	A1	TTQPVDRQY	12.500
228	HCV-la	28	52	9	A_0201	YLVTGCVRV	319.939
229	HCV-1a	28	49	9	A_0201	VMMYLVTGC	51.908
230	HCV-1a	28	50	9	A_0201	MMYLVTGCV	35.524
231	HCV-1a	28	30	9	- в7	TPPTSTQVL	80.000
232	HCV-1a	28	27	9	в7	AARTPPTST	13.500
233	HCV-1a	28	3	9	в7	AGFPDKTTL	12.000
234	HCV-1a	28	43	9	в_3501	RSADMHVMM	40.000
235	HCV-1a	28	30	9	B_3501	TPPTSTQVL	20.000
236	HCV-1a	28	44	9	B_4403	SADMHVMMY	18.000
237	HCV-1a	28	10	10	A_0201	TLPTMTTQPV	69.552
238	HCV-1a	28	49	10	A_0201	VMMYLVTGCV	41.075
239	HCV-1a	28	29	10	A24	RTPPTSTQVL	17.280
240	HCV-1a	28	50	10	A3	MMYLVTGCVR	20.000
241	HCV-1a	28	2	10	в7	IAGFPDKTTL	12.000
242	HCV-1a	28	41	10	в7	TSRSADMHVM	10.000
243	HCV-1a	28	24	10	B8	AAKAARTPPT	16.000
244	HCV-1a	28	41	10	B_3501	TSRSADMHVM	45.000
245	HCV-1a	28	43	10	B_3501	RSADMHVMMY	40.000
246	HCV-1a	28	5	10	В_3501	FPDKTTLPTM	12.000
247	HCV-1a	28	43	10	B_4403		18.000
248	HCV-1a	29	5	9	A_0201		69.552
249	HCV-1a	30	3	10	в7	EGRSPGATNL	40.000
250			1	9	B7	MPGFPLPVL	120.000
251			1	9	B_3501		20.000 39.210
252			20	9	A_0201		39.210
253			17	9	A3	VLQSITESK	21.300
254			3	10	A_0201		11.200
255			9	10	A24	KSTVWVTHVL	10.000
256	HCV-1a	32	9	10	B_3501	. KSTVWVTHVL	23.300

257	HCV-1a	33	5	9	в7	VATTTTSPL	12.000
258	HCV-1a	33	4	10	в7	SVATTTTSPL	20.000
259	HCV-1a	34	6	9	A24	SFAASSSHF	10.000
260	HCV-1a	34	6	10	A24	SFAASSSHFF	10.000
261	HCV-1a	35				NO HITS	
262	HCV-1a	36	7	9	A1	VTEPGGVAV	45.000
263	HCV-1a	36	13	9	в7	VAVASTTSL	12.000
264	HCV-1a	36	34	9	B_3501	MPKMDVASV	18.000
265	HCV-1a	36	8	9	B_4403	TEPGGVAVA	18.000
266	HCV-1a	36	7	10	A1	VTEPGGVAVA	45.000
267	HCV-1a	36	6	10	A_0201	TVTEPGGVAV	24.952
268	HCV-1a	36	12	10	в7	GVAVASTTSL	20.000
269	HCV-1a	36	28	10	в7	WSRTVPMPKM	15.000
270	HCV-1a	36	28	10	B_3501	WSRTVPMPKM	30.000
271	HCV-1a	36	25	10	B_3501	VSAWSRTVPM	10.000
272	HCV-1a	36	8	10	B_4403	TEPGGVAVAS	13.500
273	HCV-1a	37	7	9	A_0201	IVLTPVLML	27.042
274	HCV-1a	37	2	9	A_0201	GLPVVIVLT	17.140
275	HCV-1a	37	1	9	A24	MGLPVVIVL	10.080
276	HCV-1a	37	7	9	в7	IVLTPVLML	30.000
277	HCV-1a	37	5	9	в7	VVIVLTPVL	20.000
277	HCV-la	37	6	10	A_0201	VIVLTPVLML	11.485
279	HCV-la	38	17	9	в7	TPRVHTAAL	800.000
280	HCV-1a	38	17	9	в8	TPRVHTAAL	16.000
281	HCV-1a	38	17	9	B_3501	TPRVHTAAL	60.000
282		38	14	10	A_0201	ALATPRVHTA	11.426
		38	16	10	в7	ATPRVHTAAL	12.000
283		39	12	9	в7	SPRRRTGMT	20.000
284		39	12	9	в8	SPRRRTGMT	16.000
285		39	11	9	B_3501	LSPRRRTGM	10.000
286		39	18	10	A3	GMTSACLVTR	18.000
287		39	1	10	в7	MGRGDSRLPL	60.000
288		40	4	9	A_0201	PLGDAMVLV	14.429
289	_		3	9	в7	GPLGDAMVL	80.000
290	man in a constant	40	- 3 3	. 9	B_3501		3.0 .000
291		41	3 77	9	A_0201		315.959
292		41	22	9	A_0201		147.172
293		41	31	9	A_0201		85.394
294			15	9	A_0201		56.299
295			6	9	A_0201		29.887
290			21	9	A24	WFLSRPVRL	30.000
29*				9	в7	GPSSISRPL	80.000
29			61 11.6	9	в7 в7	QSRRGVRWL	40.000
29:			116	9	в7	VIMHPRRPL	27.000
30			30 105			ATARSRKPL	18.000
30			105	9	в7 в7	YAVMGASNL	12.000
30			43	9		TARSRKPLC	16.000
30			106	9	B8		30.000
30			33	9	B_3501		20.000
30			61	9	B_3501		15.000
30			116	9	B_3501		18.000
30			71	9	B_4403		60.325
30	8 HCV-1a	41	45	10	A_0201	VMGASNLQPL	00.000

309	HCV-1a	41	30	10	A_0201	VIMHPRRPLV	60.154
310	HCV-1a	41	22	10	A_0201	FLSRPVRLVI	19.676
311	HCV-1a	41	42	10		AYAVMGASNL	200.000
312	HCV-1a	41	90	10		VMSLVSIWEK	90.000
313	HCV-1a	41	84	10		AVSAPHVMSL	60.000
314	HCV-1a	41	29	10	в7	LVIMHPRRPL	45.000
315	HCV-1a	41	87	10	в7	APHVMSLVSI	24.000
316	HCV-1a	41	33	10	В7	HPRRPLVCWA	20.000
317	HCV-1a	41	104	10	в7	TATARSRKPL	18.000
318	HCV-1a	41	115	10	в7	AQSRRGVRWL	12.000
319	HCV-1a	41	60	10	в7	AGPSSISRPL	12.000
320	HCV-1a	41	23	10	в7	LSRPVRLVIM	10.000
321	HCV-1a	41	23	10	в8	LSRPVRLVIM	20.000
322	HCV-1a	41	106	10	В8	TARSRKPLCA	16.000
323	HCV-1a	41	23	10	в_3501	LSRPVRLVIM	30.000
324	HCV-1a	41	71	10	B_4403	AETGKPLMMS	18.000
325	HCV-1a	42	14	9	A3	KMTASRPPR	12.000
326	HCV-1a	42	33	9	B_4403	CASTLVRKY	13.500
327	HCV-1a	42	14	10	A_0201	KMTASRPPRT	18.837
328	HCV-1a	42	19	10	в7	RPPRTLRGGI	12.000
329	HCV-1a	42	3	10	в7	NTRVGCTAHM	10.000
330	HCV-1a	42	19	10	B_3501	RPPRTLRGGI	16.000
331	HCV-1a	42	32	10	в_4403	SCASTLVRKY	54.000
332	HCV-1a	43	33	9	A1	MLDPTPYKY	500.000
333	HCV-1a	43	95	9	A_0201	VQLQAASSL	13.624
334	HCV-1a	43	109	9	A24	TYILILNIV	12.600
335	HCV-1a	43	40	9	A24	KYCTSTMFW	10.000
336	HCV-1a	43	45	9	A3	TMFWWRWMR	180.000
337	HCV-1a	43	32	9	A3	AMLDPTPYK	45.000
338	HCV-1a	43	33	9	A3	MLDPTPYKY	18.000
339	HCV-1a	43	89	9	в7	SQRSPRVQL	90.000
340	HCV-1a	43	106	9	в7	TPPTYILIL	80.000
341	HCV-1a	43	92	9	в7	SPRVQLQAA	20.000 20.000
342	HCV-1a	43	71	9	В7	CVVVSSNGL	127.000
343	HCV-1a	43	26	9	В7	HLMAQDAML	20.000
344	HCV-1a	43	106	9	B_3501	TPPTYILL	16.000
345	HCV-1a	43	53	9	B_3501	RPVDKAGRV	27.000
346	HCV-1a	43	31	9	B_4403		57.380
347	HCV-1a	43	102	10	A_0201		27.870
348	HCV-1a		33	10	A_0201	MLDPTPYKYC	12.000
349			94	10	A24	RVQLQAASSL	12.000
350			88	10	A24	RSQRSPRVQL	10.000
351			40	10	A24	KYCTSTMFWW	10.000
352			38	10	A24	PYKYCTSTMF	18.000
353			32	10	A3	AMLDPTPYKY	40.000
354			18	10	B7	RNRRTTYSHL	20.000
355			94	10	B7	RVQLQAASSL	20.000
356			37	10	B7	TPYKYCTSTM	12.000
357			86	10	B8	SSRSQRSPRV	40.000
358			37	10	B_3501		30.000
359			15	10	B_3501		16.000
36	O HCV-1a	t 43	53	10	B_3501	RPVDKAGRVV	<u></u>

361	HCV-1a	43	88	10	B_3501	RSQRSPRVQL	10.000
362	HCV-1a	43	101	10	B_3501	SSLCSTPPTY	10.000
363	HCV-1a	43	24	10	B_3501	YSHLMAQDAM	10.000
364	HCV-1a	43	43	10	,B_3501	TSTMFWWRWM	10.000
365	HCV-1a	43	30	10	B_4403	QDAMLDPTPY	45.000
366	HCV-1a	43	101	10	B_4403	SSLCSTPPTY	12.000
3 67	HCV-1a	44	30	9	A_0201	VLLRTKTSV	437.482
368	HCV-1a	44	9	9	A_0201	TLVNPVEFI	64.668
369	HCV-1a	44	16	9	A_0201	FIQVQPNQL	13.512
370	HCV-1a	44	24	9	в7	LPSGGLVLL	80.000
371	HCV-1a	44	б	9	B7	APHTLVNPV	12.000
372	HCV-1a	44	24	9	B_3501	LPSGGLVLL	20.000
373	HCV-1a	44	23	10	A_0201	QLPSGGLVLL	49.134
374	HCV-1a	44	29	10	A_0201	LVLLRTKTSV	38.280
375	HCV-1a	44	10	10	A_0201	LVNPVEFIQV	19.657
376	HCV-1a	44	15	10	A24	EFIQVQPNQL	36.000
377	HCV-1a	44.	20	10	В7	QPNQLPSGGL	120.000
378	HCV-1a	44	20	10	B_3501	QPNQLPSGGL	20.000
379	HCV-1a	45				NO HITS	
380	HCV-1a	46				NO HITS	
381	HCV-1a	47	8	9	A_0201	TILELGQSL	44.559
382	HCV-la	47	8	9	A24	TILELGQSL	10.368
383	HCV-1a	47	4	9	в7	AASYTILEL	36.000
384	HCV-1a	47	2	9	в7	ASAASYTIL	12.000
385	HCV-1a	47	10	9	B_4403	LELGQSLVT	12.000
386	HCV-1a	47	8	10	A_0201	TILELGQSLV	145.077
387	HCV-1a	47	1	10	в7	MASAASYTIL	12.000
388	HCV-1a	47	3	10	в7	SAASYTILEL	12.000
389	HCV-1a	47	10	10	B_4403	LELGQSLVTW	54.000
390	HCV-la	48	42	9	в7	HPAHPQPSL	120.000
391	HCV-1a	48	12	9	в7	RVSMTLPKL	20.000
392	HCV-1a	48	42	9	B_3501	HPAHPQPSL	20.000
393	HCV-1a	48	8	10	A24	KPHVRVSMTL	11.200
394	HCV-1a	48	8	10	в7	KPHVRVSMTL	80.000
395	HCV-1a	48	35	10	в7	EPRGDRSHPA	~~20~000
396	HCV-1a	48	2	10	в7	YPMRSAKPHV	12.000
397	HCV-1a	48	35	10	в8	EPRGDRSHPA	32.000
398	HCV-1a	48	19	10	в8	KLRDLRRGSV	18.000
399	HCV-1a	48	8	10	B_3501	KPHVRVSMTL	40.000
400	HCV-1a	48	6	10	B_3501	SAKPHVRVSM	18.000
401	HCV-1a	49	15	9	A24	PYQAVPQGL	50.400
402	HCV-1a	49	22	9	A3	GLSRPNTTR	18.000
403	HCV-1a	49	23	9	в7	LSRPNTTRL	40.000
404	HCV-1a	49	8	9	B_3501	LPGHSQAPY	40.000
405	HCV-1a	49	23	9	B_3501	LSRPNTTRL	15.000
406	HCV-1a	49	22	10	A_0201	GLSRPNTTRL	21.362
407	HCV-1a	49	25	10	A24	RPNTTRLAVL	12.000
408	B HCV-1a	49	33	10	A3	VLRGHAQISR	12.000
409	HCV-1a	49	14	10	в7	APYQAVPQGL	240.000
410	HCV-1a	49	25	10	в7	RPNTTRLAVL	80.000
411	L HCV-1a	49	25	10	в_3501	RPNTTRLAVL	40.000
412	HCV-1a	49	14	10	B_3501	APYQAVPQGL	20.000

413	HCV-1a	50	4	9	B_4403	REASISTLC	12.000
414	HCV-1a	50	2	10	в7	ICREASISTL	40.000
415	HCV-1a	50	2	10	в8	ICREASISTL	24.000
416	HCV-1a	50	4	10	B_4403	REASISTLCS	12.000
417	HCV-1a	51	29	9	A1	WSEFELCSY	67.500
418	HCV-1a	51	32	9	A_0201	FELCSYCPV	34.527
419	HCV-1a	51	36	9	A24	SYCPVEEVL	336.000
420	HCV-1a	51	72	9	A24	RYPKFSEAC	15.000
421	HCV-1a	51	27	9	A24	RYWSEFELC	12.000
422	HCV-la	51	65	9	B_3501	VSPSSQGRY	10.000
423	HCV-1a	51	41	9	B_4403	EEVLATYGS	18.000
424	HCV-1a	51	75	10	A24	KFSEACGHPI	12.000
425	HCV-1a	51	27	10	A24	RYWSEFELCS	10.000
426	HCV-1a	51	25	10	в7	SGRYWSEFEL	40.000
427	HCV-1a	51	38	10	B_3501	CPVEEVLATY	80.000
428	HCV-1a	51	77	10	B_4403	SEACGHPIDF	160.000
429	HCV-1a	51	38	10	B_4403	CPVEEVLATY	13.500
430	HCV-1a	51	15	10	B_4403	REPAGQVQLA	12.000
431	HCV-1a	51	59	10	B_4403	ADAPGPVSPS	12.000
432	HCV-1a	52				NO HITS	
433	HCV-1a	53	8	10	B_3501	RPQCGGKHDY	80.000
434	HCV-1a	54	4	9	в7	DVFCPITKL	30.000
435	HCV-1a	54	2	10	A1	ATDVFCPITK	125.000
436	HCV-1a	54	5	10	A24	VFCPITKLGF	12.000
437	HCV-1a	55	13	9	A_0201	FLLPLASTA	84.555
438	HCV-1a	55	5	10	A_0201	NLQSVKCDFL	57.572
439	HCV-1a	55	6	10	A_0201	LQSVKCDFLL	21.356
440	HCV-1a	55	8	10	в7	SVKCDFLLPL	20.000
441	HCV-1a	56	6	9	A_0201	FVVGLFPRL	16.337
442	HCV-1a	56	6	9	в7	FVVGLFPRL	20.000
443	HCV-1a	56	5	10	A24	WFVVGLFPRL	43.200
444	HCV-1a	57				NO HITS	
445	HCV-1a	58	9	10	A_0201	RQHGHVRFGL	12.562
446	HCV-1a	58	9	10	A24	RQHGHVRFGL	11.200
447	HCV-1a	58	5	10	B_4403	SEHGRQHGHV	12.000
448	HCV-1a	59	33	9	в7	DPRQLWHEL	300.000
449	HCV-1a	59	19	9	в7	SPDPLIPAL	24.000
450	HCV-1a	59	15	9	в7	DAVPSPDPL	12.000
451	HCV-1a	59	33	9	В8	DPRQLWHEL	32.000
452	HCV-1a	59	33	9	B_3501	DPRQLWHEL	60.000
453	HCV-1a	59	28	10	в7	AGHKGDPRQL	12.000
454	HCV-1a	60	10	10	в7	QPVHPLHCPL	80.000
455	HCV-1a	60	10	10	B_3501	QPVHPLHCPL	20.000
456	HCV-1a	60	19	10	B_3501	LARANVPAQY	18.000
457	HCV-1a	60	6	10	B_4403	GEGYQPVHPL	12.000
458	HCV-1a	61	38	9	A_0201	LLGEHHPLL	148.896
459	HCV-1a	61	27	9	A_0201	GLQEAEGLL	11.386
460	HCV-1a	61	26	9	A24	RGLQEAEGL	12.000
461	. HCV-1a	61	15	9	в7	DSRGDNLCL	40.000
462	HCV-1a	61	15	9	в_3501	DSRGDNLCL	22.500
463	HCV-1a	61	31	9	в_4403	AEGLLLELL	12.000
464	HCV-1a	61	27	10	A_0201	GLQEAEGLLL	87.586

465	HCV-1a	61	1	10	A_0201	MLRPEGLEFL	17.108
466	HCV-1a	61	22	10	A_0201	CLTGRGLQEA	11.426
467	HCV-1a	61	26	10	A24	RGLQEAEGLL	12.000
468	HCV-1a	61	1	10	в7	MLRPEGLEFL	40.000
469	HCV-1a	61	29	10	B_4403	QEAEGLLLEL	12.000
470	HCV-1a	62	37	9	A_0201	KVLPTLLCL	55.674
471	HCV-1a	62	37	9	A24	KVLPTLLCL	14.400
472	HCV-1a	62	29	9	A3	GLVRYQVRK	270.000
473	HCV-1a	62	34	9	в7	QVRKVLPTL	200.000
474	HCV-1a	62	14	9	в7	LVPRWGRGL	20.000
475	HCV-1a	62	37	9	в7	KVLPTLLCL	20.000
476	HCV-1a	62	6	9	в7	EANQTLPHL	12.000
477	HCV-1a	62	30	9	в7	LVRYQVRKV	10.000
478	HCV-1a	62	25	9	B_4403	SAHGGLVRY	13.500
479	HCV-1a	62	29	10	A_0201	GLVRYQVRKV	31.994
480	HCV-1a	62	33	10	A_0201	YQVRKVLPTL	22.915
481	HCV-1a	62	32	10	A24	RYQVRKVLPT	15.000
482	HCV-1a	62	30	10	в7	LVRYQVRKVL	300.000
483	HCV-1a	62	34	10	в7	QVRKVLPTLL	200.000
484	HCV-1a	62	5	10	B_4403	LEANQTLPHL	12.000
485	HCV-1a	63				NO HITS	
486	HCV-1a	64	3	10	A1	EDEMSPPLDY	11.250
487	HCV-1a	64	76	10	A_0201	GVALVTNYYV	33.472
488	HCV-1a	64	85	10	A_0201	VISAPRAPAV	16.258
489	HCV-1a	64	36	10	A3	GMGHSDGARR	12.000
490	HCV-1a	64	91	10	в7	APAVGKELAV	12.000
491	HCV-1a	64	4	10	в_4403	DEMSPPLDYF	360.000
492	HCV-1a	64	3	10	B_4403	EDEMSPPLDY	15.000
493	HCV-1a	64	75	10	B_4403	RGVALVTNYY	13.500
494	HCV-1a	64	120	9	A1	RIDPMSLGH	25.000
495	HCV-1a	64	77	9	A_0201	VALVTNYYV	33.419
496	HCV-1a	64	90	9	A24	RAPAVGKEL	18.480
497	HCV-1a	64	118	9	в7	DVRIDPMSL	200.000
498	HCV-1a	64	53	9	B7	QSRPRSLCL	40.000
499	HCV-1a	64	90	9	в7	RAPAVGKEL	12.000
500	HCV-1a	64	53	9	В8	QSRPRSLCL	80.000
501	HCV-1a	64	71	9	В8	GCGIRGVAL	16.000
502	HCV-1a	64	53	9	в_3501	QSRPRSLCL	15.000
503	HCV-1a	64	116	9	в_3501	GPDVRIDPM	12.000
504	HCV-1a	64	29	9	B_3501		10.000
505	HCV-1a	64	4	9	B_4403	DEMSPPLDY	720.000
506	HCV-1a	64	75	9	B_4403	RGVALVTNY	27.000
507	HCV-1a	65	6	9	B_4403		24.000
508	HCV-1a	65	1	9	B_4403		12.000
509	HCV-1a	65	8	10	A_0201		23.648
510		65	3	10	B_3501		10.000
511		66				NO HITS	
512		67		_	7 0001	NO HITS	70 640
513		68	29	9	A_0201		79.642
514		68	33	9	A_0201		21.996 600.000
515		68	21	9	B7	APRVCGVRM	
516	HCV-1a	68	26	9	в7	GVRMLAEAI	20.000

- 64 -

517	HCV-1a	68	21	9	B_3501	APRVCGVRM	120.000
518	HCV-1a	68	29	10	A_0201	MLAEAISGAV	63.021
519	HCV-1a	68	28	10	A_0201	RMLAEAISGA	30.534
520	HCV-1a	68	21	10	в7	APRVCGVRML	2.400.000
521	HCV-1a	68	21	10	В8	APRVCGVRML	16.000
522	HCV-1a	68	21	10	B_3501	APRVCGVRML	60.000
523	HCV-1a	68	47	10	в_4403	DDTRRRSAHF	15.000

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Table 4c 1b (1-3)

	·		City a restr	20.70	HT 3	Peptide sequence	e Score
No.	Strain	ORF	Start	<b>AA</b> 9	HLA A24	RTTAPTQVL	9.600
1.	HCV-1b	4	3	9	A24	RYKIAIAQS	10.000
2	HCV-1b	5	3	10	A24	RYKIAIAQSI	186.000
3	HCV-1b	5	3 15	10	A24	TYQVTAWLGI	75.000
4	HCV-1b	5	3	9	A24	SFLPMVVAL	36.000
5	HCV-1b	13	110	9	A24	SYQLSETSL	300.000
6	HCV-1b	14	26	9	A24	RGLSCSPPL	12.000
7	HCV-1b	14 18	32	9	A24	KOPPNKRRL	14.400
8	HCV-1b		32	10	A24	KOPPNKRRLL	14.400
9	HCV-1b	18	13	9	A24	RSSPALPSL	9.600
10	HCV-1b	20 20	4	9	A24	RATPORVLL	9.600
11	HCV-1b	20	9	10	A24	RVLLRSSPAL	12.000
12	HCV-1b	25	4	9	A24	KYPFRRRSC	15.000
13	HCV-1b	29	27	9	A24	VYARRWPSM	25.000
14	HCV-1b	29	27	10	A24	VYARRWPSMM	25.000
15	HCV-1b	30	9	9	A24	RSPRTTSVL	12.000
16	HCV-1b			10	A24	GYHPCESGDI	60.000
1.7	HCV-1b	33	27	9	A24 A24	LFDHPSFRL	20.000
18	HCV-1b	36	57 46	9	A24	LFLYLPLSF	18.000
19	HCV-1b	36	44	9	A24	RLLFLYLPL	14.400
20	HCV-1b	36	44	9	A24	LYLPLSFAV	10.800
21	HCV-1b	36 26	48	10	A24	LYLPLSFAVL	432.000
22	HCV-1b	36 40	29	10	A24	GFCRSGTLDL	20.000
23	HCV-1b		29 6	9	A24	FYHQGRGAL	200.000
24	HCV-1b	41 41	5	10	A24	IFYHQGRGAL	20.000
25	HCV-1b	41 47	13	9	A24	TYAARANTL	240.000
26 27	HCV-1b HCV-1b	53	10	9	A24	RCIRQKGVL	12.000
28	HCV-1b	8	3	9	A3	RLWPERMAF	30.000
29	HCV-1b	8	33	9	A3	HMLSMAYGR	18.000
30	HCV-1b	14	60	9	A3	SMAKPSPLK	30.000
31	HCV-1b	14	27	9	A3	GLSCSPPLR	12.000
	HCV=1b		54		A3	ILERSPSMAK	60.000
33	HCV-1b	29	35	9	A3	MMWSPPFLR	90.000
34	HCV-1b	29	22	9	A3	QIWESVYAR	27.000
35	HCV-1b	29	34	10	A3	SMMWSPPFLR	27.000
36	HCV-1b	36	56	9	A3	VLFDHPSFR	20.000
37	HCV-1b	36	45	10	A3	LLFLYLPLSF	20.000
38		36	56	10	A3	VLFDHPSFRL	13.500
39		43	37	9	A3	GLGPRGPTR	18.000
40	HCV-1b	43	16	10	A3	GLHEAGRADR	18.000
41	HCV-1b	47	16	9	A3	GLHDARERR	12.000
42	HCV-1b	1	32	10	A0201	VIWVRSSIPL	41.446
43	HCV-1b	1	20	10	A0201	LVGAPQTPGV	10.346
44	HCV-1b	6	84	9	A0201	LLWWGRPTV	981.379
45	HCV-1b	6	66	9	A0201	VLYPRRRCV	75.673
46	HCV-1b	6	8	9	A0201	SLLRCSTHT	27.527
47	HCV-1b	6	83	10	A0201	VLLWWGRPTV	437.482
48	HCV-1b	6	5	10	A0201	KLGSLLRCST	26.082
49	HCV-1b	6	66	10	A0201	VLYPRRRCVA	11.081
50	HCV-1b	7	7	9	A0201	FSWRTRASV	17.334

							0=4
51	HCV-1b	18	53	9	A0201	LMPWTERWL	28.851
52	HCV-1b	18	29	9	A0201	SLGRHMLSM	11.426
53	HCV-1b	18	60	10	A0201	WLHRAEARFL	108.094
54	HCV-1b	18	29	10	A0201	SLGRHMLSMA	11.426
55	HCV-1b	13	4	10	A0201	FLPMVVALGA	22.853
56	HCV-1b	14	5	9	A0201	QLTRLQSWA	27.324
57	HCV-1b	14	53	9	A0201	LILERSPSM	17.616
58	HCV-1b	14	27	10	A0201	GLSCSPPLRL	21.362
59	HCV-1b	14	53	10	A0201	LILERSPSMA	17.616
60	HCV-1b	14	4	10	A0201	IQLTRLQSWA	17.426
61	HCV-1b	14	70	10	A0201	SGGEGISFSV	10.797
62	HCV-1b	14	93	10	A0201	QASESTLWRI	10.248
63	HCV-1b	19	3	10	A0201	QEWPARSWPL	25.857
64	HCV-1b	20	10	9	A0201	VLLRSSPAL	134.369
65	HCV-1b	23	22	10	A0201	ILGRCGGWPL	272.371
66	HCV-1b	29	34	9	A0201	SMMWSPPFL	313.968
67	HCV-1b	30	16	9	A0201	VLRSQFTNV	17.074
68	HCV-1b	31	30	9	A0201	KQLDTLQLT	92.267
69	HCV-1b	33	2	9	A0201	ALAHFHSIV	108.362
70	HCV-1b	33	11	10	A0201	TLQVRSIGWL	35.130
71	HCV-1b	36	47	9	A0201	FLYLPLSFA	925.081
72	HCV-1b	36	79	9	A0201	RLLQLKYCV	257.342
72	HCV-1b	36	44	9	A0201	RLLFLYLPL	118.561
74	HCV-1b	36	49	9	A0201	YLPLSFAVL	76.550
		36	47	10	A0201	FLYLPLSFAV	5938.072
75	HCV-1b	36	36	10	A0201	VLFDHPSFRL	3195.307
76	HCV-1b		6	10	A0201	ALAGFTTTSL	21.362
77	HCV-1b	40	11	10	A0201	SLCPNGLHEA	11.426
78	HCV-1b	43		9	A0201	LIPPGRTAV	16.258
79	HCV-1b	45	30	10	A0201	QLIPPGRTAV	69.552
80	HCV-1b	45	29	9	A0201	MLLEGLCSL	1267.104
81	HCV-1b	52	1			SLSSCEAPGL	21.362
82	HCV-1b	52	8	10	A0201 A0201	FLQCVGRPRC	22.853
83	HCV-1b	53	2	10		SGEPLRHSGR	22.500
84	HCV-1b	18	48	10	A1	STDHRTCQK	25.000
85	HCV-1b	48	3	9	A1		
86	HCV-1b						21.500
87	HCV-1b	1	26	9	B3501	TPGVGRVIW	10.000
88		5	12	10	B3501	IPATYQVTAW	
89		6	95	9	B3501	SPRIAGGRM	120.000
90		6	2	9	B3501	TPSKLGSLL	20.000
91	HCV-1b	6	89	10		RPTVPESPRI	24.000
92	HCV-1b	6	51	10		RTRGLIAGTM	12.000
93	HCV-1b	6	94	10		ESPRIAGGRM	10.000
94	HCV-1b	18	25	10		KAGWSLGRHM	12.000
95	HCV-1b	18	28	10		WSLGRHMLSM	10.000
96	HCV-1b	18	19	10		APPGTSKAGW	10.000
97	HCV-1b	13	5	10		LPMVVALGAL	20.000
98	HCV-1b	14	68	10			60.000
99	HCV-1b	14	58	10	в3501	SPSMAKPSPL	20.000
10	0 HCV-1b	14	46	10	в3501	TSRRWPCLIL	15.000
1.0	1 HCV-1b	15	14	9	B3501	RPRLGCGPT	12.000
10	12 HCV-1b	18	33	9	B3501	QPPNKRRLL	20.000
10	3 HCV-1b	18	22	9	B3501	SSSRKRSGY	10.000
1.0	04 HCV-1b	18	33	10	B3501	QPPNKRRLL	20.000

105	HCV-1b	18	21	10	B3501	SSSSRKSGY	10.000
106	HCV-1b	18	4	10	B3501	KSAPRTSLTL	10.000
107	HCV-1b	20	13	9	B3501	RSSPALPSL	10.000
108	HCV-1b	23	9	9	B3501	TPRAPAHPL	60.000
109	HCV-1b	23	15	9	B3501	HPLQRQTIL	20.000
110	HCV-1b	24	10	10	B3501	RPTSCGGRRW	20.000
111	HCV-1b	24	23	10	в3501	SPAWSRRTRW	10.000
112	HCV-1b	27	15	9	B3501	SPLTDCKSW	15.000
113	HCV-1b	29	28	9	B3501	YARRWPSMM	18.000
114	HCV-1b	29	20	9	B3501	YSQIWESVY	10.000
115	HCV-1b	29	32	10	B3501	WSPMMWSPPF	20.000
116	HCV-1b	29	15	10	B3501	QPALSYSQIW	10.000
117	HCV-1b	30	9	9	B3501	RSPRTTSVL	10.000
118	HCV-1b	31	19	9	B3501	IPPPPSHGL	20.000
119	HCV-1b	33	46	9	B3501	CPRGGGPPL	60.000
120	HCV-1b	33	37	9	B3501	GPGASALGY	40.000
121	HCV-1b	33	46	10	B3501	CPRGGGPPLV	12.000
122	HCV-1b	36	50	9	B3501	LPLSFAVLF	20.000
123	HCV-1b	36	41	9	B3501	ESARLLFLY	10.000
124	HCV-1b	36	28	10	в3501	RPGSGGRREL	40.000
125	HCV-1b	36	74	10	в3501	IPCHERLLQL	20.000
126	HCV-1b	39	10	10	B3501	SPGGRARLCL	20.000
127	HCV-1b	39	8	10	в3501	LPSPGGRARL	20.000
128	HCV-1b	43	30	9	B3501	QPSYPATGL	20.000
129	HCV-1b	43	3	10	B3501	VSAEGRWGSL	10.000
130	HCV-1b	45	46	9	B3501	RSHWQRQEY	20.000
131	HCV-1b	45	12	9	B3501	CARRVHGNY	18.000
132	HCV-1b	45	2	10	B3501	HPGGCEGGGL	30.000
133	HCV-1b	45	12	10	B3501	CARRVHGNYY	18.000
134	HCV-1b	53	8	10	B3501	RPRCIRQKGV	24.000
135	HCV-1b	54	1	10	B3501	MPQETWGTTL	40.000
136	HCV-1b	8	51	10	B4403	HELMPWTERW	36.000
137	HCV-1b	19	1	10	B4403	MEQEWPARSW	18.000
138	HCV-1b	29	24	9	B4403	WESVYARRW	18.000
139	HCV-1b	36	77	9	B4403	HERLLQLKY	180.000
140	~HCV-1b~	3.6- / -	40	-10	-B4403	RESARLLFLY	270.000
141	HCV-1b	43	18	10	B4403	HEAGRADRHV	18.000
142	HCV-1b	47	5	9	B4403	VEVSHTAET	12.000
143	HCV-1b	47	5	10	B4403	VEVSHTAETY	360.000
144	HCV-1b	47	11	10	B4403	AETYAARANT	12.000
145	HCV-1b	52	21	9	B4403	RERRRPCRY	120.000
146	HCV-1b	52	12	9	B4403	CEAPGLHDA	24.000
147	HCV-1b	1	45	10	в7	SPTSWGTFRL	80.000
148	HCV-1b	1	23	10	в7	APQTPGVGRV	12.000
149	HCV-1b	5	14	9	в7	ATYQVTAWL	12.000
150	HCV-1b	6	95	9	в7	SPRIAGGRM	200.000
151	HCV-1b	6	2	9	<b>B</b> 7	TPSKLGSLL	80.000
152	HCV-1b	6	36	9	в7	SLRGGVPSL	40.000
153	HCV-1b	6	29	9	в7	AAAPSTSSL	36.000
154	HCV-1b	6	40	9	В7	GVPSLTLCL	20.000
155	HCV-1b	6	68	10	в7	YPRRRCVAQC	20.000
156	HCV-1b	6	58	10	в7	GMTHPNRAVL	18.000
157	HCV-1b	6	75	10	в7	AQCIASPRVL	12.000
158	HCV-1b	6	51	10	в7	RTRGLIAGTM	10.000

<b>159</b> HO	CV-1b	8	39	10	в7	YGRCSCSCWL	40.000
<b>160</b> H	CV-1b	8	26	10	в7	AGWSLGRHML	18.000
<b>161</b> H	CV-1b	8	52	10	в7	ELMPWTERWL	12.000
162 H	CV-1b	9	4	9	в7	EAAMPSSSL	18.000
163 H	CV-1b	13	5	10	в7	LPMVVALGAL	240.000
<b>164</b> H	CV-1b	13	2	10	B <b>7</b>	ASFLPMVVAL	12.000
<b>165</b> H	CV-1b	14	105	9	в7	GSMCPSYQL	18.000
<b>166</b> H	CV-1b	14	58	10	в7	SPSMAKPSPL	80.000
<b>167</b> H	CV-1b	14	46	10	в7	TSRRWPCLIL	60.000
168 H	CV-1b	14	15	10	в7	AQSWTKRRRL	18.000
<b>169</b> H	CV-1b	15	14	9	в7	RPRLGCGPT	20.000
<b>170</b> H	CV-1b	16	5	9	в7	CPRPSRQET	30.000
<b>171</b> H	CV-1b	16	5	10	в7	CPRPSRQETT	20.000
<b>172</b> H	ICV-1b	18	33	9	в7	QPPNKRRLL	120.000
<b>173</b> H	ICV-1b	18	6	9	в7	APRTSLTLS	12.000
<b>174</b> H	ICV-1b	18	34	9	в7	PPNKRRLLL	12.000
<b>175</b> H	ICV-1b	18	5	9	в7	SAPRTSLTL	12.000
<b>176</b> H	ICV-1b	18	33	10	в7	QPPNKRRLLL	120.000
<b>177</b> H	ICV-1b	20	4	9	в7	RATPQRVLL	18.000
<b>178</b> I	ICV-1b	20	2	10	в7	CLRATPQRVL	60.000
179 H	ICV-1b	20	9	10	в7	RVLLRSSPAL	20.000
180 H	HCV-1b	23	9	9	в7	TPRAPAHPL	1200.000
	HCV-1b	23	15	9	в7	HLPQRQTIL	80.000
	HCV-1b	23	23	9	в7	LGRCGGWPL	40.000
	HCV-1b	25	24	9	в7	SGRARITTL	40.000
	HCV-1b	25	14	9	в7	NPRSSPQRC	20.000
	HCV-1b	25	9	9	в7	ACGRRRSPL	18.000
	HCV-1b	25	8	10	в7	QACGRRRSPL	18.000
	HCV-1b	28	20	9	в7	CGRTCWKTL	40.000
	HCV-1b	29	28	9	в7	YARRWPSMM	30.000
	HCV-1b	29	34	9	в7	SMMWSPPFL	12.000
	HCV-1b	31	19	9	в7	IPPPPSHGL	120.000
191	HCV-1b	31	26	10	в7	GLGRKQLDTL	40.000
	HCV-1b	33	46	9	в7	CPRGGGPPL	800.000
	HCV-1b	33	46	10	в7	CPRGGGPPLV	40.000
194	HCV-1b	3:3	3	_ 10-	ъ7	LAHFHSIVTL	12.000
	HCV-1b	36	42	9	в7	SARLLFLYL	120.000
	HCV-1b	36	38	9	в7	CNRESARLL	40.000
	HCV-1b	36	28	10	в7	RPGSGGRREL	120.000
198	HCV-1b	36	74	10	в7	IPCHERLLQL	80.000
199	HCV-1b	39	12	9	в7	GGRARLCLL	40.000
	HCV-1b	39	10	10	в7	SPGGRARLCL	120.000
201	HCV-1b	39	8	10	в7	LPSPGGRARL	120.000
	HCV-1b	40	30	9	в7	FCRSGTLDL	40.000
	HCV-1b	40	7	9	в7	LAGFTTTSL	12.000
204	HCV-1b	40	6	10	в7	ALAGFTTTSL	12.000
205	HCV-1b	43	30	9	в7	QPSYPATGL	120.000
	HCV-1b	43	39	9	в7	GPRGPTRPC	30.000
	HCV-1b	43	20	10	в7	AGRADRHVHL	120.000
	HCV-1b	45	22	9	в7	AVSGLHGQL	60.000
	HCV-1b	45	2	10	в7	HPGGCEGGGL	80.000
	HCV-1b	45	21	10		YAVSGLHGQL	12.000
	HCV-1b	46	5	10		DSRLQGSHL	40.000
	HCV-1b	47	15	9	в7	AARANTLAV	18.000
212	**C ^ - TD	-11		_			

213	HCV-1b	49	9	10	в7	SAHFHAHRPL	12.000
214	HCV-1b	51	16	9	в7	AAHQRVEQL	36.000
215	HCV-1b	51	15	10	в7	QAAHQRVEQL	12.000
216	HCV-1b	53	8	10	в7	RPRCIRQKGV	40.000
217	HCV-1b	54	1	10	в7	MPQETWGTTL	80.000
218	HCV-1b	56	3	9	в7	VVQPPGPPL	30.000
219		56	2	10	в7	SVVQPPGPPL	30.000
220	HCV-1b	6	46	10	в8	LCLTSRTRGL	16.000
221	HCV-1b	14	85	10	в8	SPSMAKPSPL	16.000
222	HCV-1b	18	33	9	B8	QPPNKRRLL	16.000
223	HCV-1b	18	33	10	в8	QPPNKRRLLL	16.000
224	HCV-1b	23	15	9	в8	HPLQRQTIL	16.000
225	HCV-1b	23	9	9	В8	TPRAPAHPL	16.000
226	HCV-1b	25	24	9	в8	SGRARITTL	16.000
227	HCV-1b	27	9	9	в8	ACGRRRSPL	16.000
228	HCV-1b	27	8	10	в8	QACGRRRSPL	16.000
229	HCV-1b	33	46	9	в8	CPRGGGPPL	16.000
230	HCV-1b	36	42	9	в8	SARLLFLYL	16.000
231	. HCV-1b	36	74	10	в8	IPCHERLLQL	16.000
232	HCV-1b	39	12	9	в8	GGRARLCLL	16.000
233	HCV-1b	40	30	9	в8	FCRSGTLDL	16.000
234	HCV-1b	43	20	10	в8	AGRADRHVHL	16.000
235	HCV-1b	51	16	9	в8	AAHQRVEQL	16.000
236	5 HCV-1b	51	15	10	в8	QAAHQRVEQL	16.000
23		52	19	9	в8	DARERRRPC	48.000
	B HCV-1b	53	8	10	В8	RPRCIRQKGV	24.000

PCT/EP2003/008112

Table 4d
1b (4-6)

No.	Strain	ORF	Start	AA	HLA	Peptide sequence	Score
1	HCV 1b	1	2	10	в7	ICREASISTL	40.000
2	HCV 1b	1	2	10	в8	ICREASISTL	24.000
3	HCV 1b	1	4	9	B_4403	REASISTLC	12.000
4	HCV 1b	1	4	10	B_4403	REASISTLCS	12.000
5	HCV 1b	2	20	9	A_0201	CLPLQKVGV	69.552
6	HCV 1b	2	4	9	B_3501	WPGVFSSPF	20.000
7	HCV 1b	3	12	9	A_0201	MMLSAPSRI	47.394
8	HCV 1b	3	13	10	A_0201	MLSApSRILV	118.238
9	HCV 1b	3	11	10	A_0201	NMMLsAPSRI	27.879
10	HCV 1b	3	5	9	в7	RPTHWRNMM	30.000
11	HCV 1b	3	5	10	в7	RPTHWRNMML	80.000
12	HCV 1b	3	3	10	в7	RGRPtHWRNM	10.000
13	HCV 1b	3	5	9	B_3501	RPTHWRNMM	80.000
14	HCV 1b	3	5	10	B_3501	RPTHWRNMML	40.000
15	HCV 1b	3	3	10	B_3501	RGRPtHWRNM	12.000
16	HCV 1b	4	18	10	A_0201	RLAAqESTGI	10.433
17	HCV 1b	4	12	9	A24	RYSPGTRLA	12.000
18	HCV 1b	4	44	10	A24	RGPSsRIHGL	12.000
19	HCV 1b	4	12	10	A24	RYSPgTRLAA	12.000
20	HCV 1b	4	45	9	В7	GPSSRIHGL	80.000
21	HCV 1b	4	10	10	B7	ISRYSPGTRL	60.000
22	HCV 1b	4	47	10	в7	SSRIhGLPDL	40.000
23	HCV 1b	4	45	9	в7	GPSSRIHGL	16.000
24	HCV 1b	4	45	9	B_3501	GPSSRIHGL	20.000
25	HCV 1b	4	31	9	B_3501	SPSRPEEGW	10.000 15.000
26	HCV 1b	4	10	10	B_3501	ISRYSPGTRL	15.000
27	HCV 1b	4	47	10	B_3501	SSRINGLPDL	12.000
28	HCV 1b	4	20	10	В_3501	AAQESTGIRM no hits	12.000
29	HCV 1b	5				no hits	
 30	HCV 1b	7				no hits	
31 32	HCV 1b	8				no hits	
33	HCV 1b	9				no hits	
34	HCV 1b	10				no hits	
35	HCV 1b	11				no hits	
36	HCV 1b	12	12	10	A_0201	AEWISLLSTV	25.817
37	HCV 1b	12	3	10	A_0201	SMMLLRGSQA	13.276
38	HCV 1b	12	12	10	B_4403	AEWISLLSTV	18.000
39	HCV 1b	13	14	9	A_0201	QQPPLVWWL	205.491
40	HCV 1b	13	21	9	A_0201	WLFAVTRAL	72.718
41	HCV 1b	13	17	9	A_0201	PLVWWLFAV	20.412
42	HCV 1b	13	13	10	A_0201	EQQPpLVWWL	15.412
43	HCV 1b	13	4	9	A3	GLATWTPPR	36.000
44	HCV 1b	13	10	9	в7	PPREQQPPL	80.000
45	HCV 1b	13	9	10	в7	TPPReQQPPL	80.000
46	HCV 1b	13	15	9	B_3501	QPPLVWWLF	20.000
47	HCV 1b	13	10	9	B_3501	PPREQQPPL	12.000
48	HCV 1b	13	9	10	B_3501	TPPReQQPPL	20.000

49	HCV 1b	13	12	10	B_4403	REQQpPLVWW	18.000
50	HCV 1b	14	15	10	A_0201	GMLPgRGSCL	57.085
51	HCV 1b	14	16	10	A_0201	MLPGrGSCLL	36.316
52	HCV 1b	14	23	9	A_0201	CLLPAWSGT	46.873
53	HCV 1b	14	16	9	A_0201	MLPGRGSCL	36.316
54	HCV 1b	14	17	9	в7	LPGRGSCLL	80.000
55	HCV 1b	14	7	10	в7	EPWRtPWLGM	30.000
56	HCV 1b	14	5	10	в7	GPEPwRTPWL	24.000
57	HCV 1b	14	7	10	B_3501	EPWRtPWLGM	40.000
58	HCV 1b	14	17	9	в_3501	LPGRGSCLL	20.000
59	HCV 1b	14	2	10	B_4403	MEVGpEPWRT	12.000
60	HCV 1b	14	19	9	A_0201	RLLPRQRRL	15.808
61	HCV 1b	14	12	9	A24	PYSPSSERL	24.000
62	HCV 1b	14	19	9	A24	RLLPRQRRL	14.400
63	HCV 1b	14	12	10	A24	PYSPsSERLL	24.000
64	HCV 1b	14	11	10	в7	RPYSpSSERL	80.000
65	HCV 1b	14	5	9	B_3501	RSLSQSRPY	20.000
66	HCV 1b	14	11	10	B_3501	RPYSpSSERL	40.000
67	HCV 1b	15	19	9	A_0201	RLLPRQRRL	15.808
68	HCV 1b	15	12	9	A24	PYSPSSERL	24.000
69	HCV 1b	15	19	9	A24	RLLPRQRRL	14.400
70	HCV 1b	15	12	10	A24	PYSPsSERLL	24.000
71	HCV 1b	15	11	10	в7	RPYSpSSERL	80.000
72	HCV 1b	15	5	9	B_3501	RSLSQSRPY	20.000
73	HCV 1b	15	11	10	B_3501	RPYSpSSERL	40.000
74	HCV 1b	16	3	9	в7	AVRPGGMSC	15.000
75	HCV 1b	17		7		no hits	
76	HCV 1b	18	21	10	A_0201	SLGPWHKLVV	28.516
77	HCV 1b	18	27	10	A_0201	KLVVvKPARA	17.388
78	HCV 1b	18	6	10	A24	RVPD1QKPRL	14.400
79	HCV 1b	18	27	9	A3	KLVVVKPAR	27.000
80	HCV 1b	18	47	9	в7	MPPQGPACL	80.000
81	HCV 1b	18	14	9	в7	RLRTMQPSL	40.000
82	HCV 1b	18	2	9	в7	VTRSRVPDL	40.000
83	HCV 1b	18	7	9	В7	VPDLQKPRL	24.000
84	HCV 1b	18	19	10	в7	QPSLgPWHKL	120.000
85	HCV 1b	18	1	10	в7	MVTRsRVPDL	20.000
86	HCV 1b	18	6	10	в7	RVPDlQKPRL	20.000
87	HCV 1b	18	2	9	B8	VTRSRVPDL	80.000
88	HCV 1b	18	19	10	в_3501	QPSLgPWHKL	20.000
89	HCV 1b	18	32	10		KPARaGATAI	16.000
90	HCV 1b	18	12	10	B_3501	KPRLrTMQPS	12.000
91	HCV 1b			7		no hits	40.000
92	HCV 1b		7	10		RTRGsGCWRL	
93	HCV 1b		24	9	В8	CARQRQQRV	48.000 45.000
94	HCV 1b		8	9	A1	VLEAARHSY	11.426
95	HCV 1b		2	10			12.000
96	HCV 1b		1	9	в7	MALPGGGVL	60.000
97	HCV 1b		14	10		NORGYARDRL	271.948
98	HCV 1b		3	10			18.476
99	HCV 1b		1	9	A_0201		16.588
1.00	HCV 1b	23	2	9	A_0201	IMLPSQELT	10.588

							10.000
101	HCV 1b	23	1	9	в7	MIMLPSQEL	18.000
102	HCV 1b	23	7	10	B_4403	QELTgVCLAV	12.000
103	HCV 1b	23	7	9	B_4403	QELTGVCLA	24.000
104	HCV 1b	24	_	7	- 4	no hits	90.000
105	HCV 1b	25	6	10	A1	TVESKQRVSY	62.942
106	HCV 1b	25	19	9	A_0201	MGFFFDFQV PMGFfFDFQV	24.356
107	HCV 1b	25	18	10	A_0201	SYEKPMGFF	150.000
108	HCV 1b	25	14	9	A24		14.400
109	HCV 1b	25	20	9	A24 A24	GFFFDFQVF SYEKpMGFFF	150.000
110	HCV 1b	25	14	10	A24 A24	EYWNpYEEPI	50.000
111	HCV 1b	25	38	10	B7	KQRVsYEKPM	10.000
112	HCV 1b	25	10	10 10	в_3501	KQRVSTEKIM	12.000
113	HCV 1b	25	10	10	B_3501	VSYEKPMGFF	10.000
114	HCV 1b	25	13 35	9	B_3501 B_3501	CPGEYWNPY	80.000
115	HCV 1b	25 25	17	9	B_3501 B_3501	KPMGFFFDF	40.000
116		25	13	9	B_3501 B_3501	VSYEKPMGF	10.000
117	HCV 1b	25	31	9	B_3501	NSTRCPGEY	10.000
118	HCV 1b HCV 1b	25 25	15	9	B_4403	yekpmgfff	120.000
119	HCV 1b	25	7	9	B_4403	VESKQRVSY	120.000
120	HCV 1b	26	17	9	A1	HTEWMWLTA	11.250
121 122	HCV 1b	26	1	10	A_0201	MMVVsIGVTV	85.394
123	HCV 1b	26	26	10	A_0201	LLDRERTSFA	18.580
124	HCV 1b	26	14	10	A_0201	KSFHTEWMWL	16.885
125	HCV 1b	26	2	9	A_0201	MVVSIGVTV	10.346
126	HCV 1b	26	15	9	A24	SFHTEWMWL	20.000
127	HCV 1b	26	20	10	A3	WMWLtALLDR	60.000
128	HCV 1b	26	12	10	B_3501	SSKSfHTEWM	30.000
129	HCV 1b	26	14	10	_ В_3501	KSFHTEWMWL	15.000
130	HCV 1b	27	16	10	A_0201	SLLSsAAHGV	257.342
131	HCV 1b	27	1	10	A_0201	MLWWrSKELL	147.697
132	HCV 1b	27	12	10	A_0201	ALMGsLLSSA	42.278
133	HCV 1b	27	9	10	A_0201	LLNAlMGSLL	36.316
134	HCV 1b	27	5	9	A24	RSKELLNAL	13.824
135	HCV 1b	27	5	9	B_3501	RSKELLNAL	60.000
136	HCV 1b	27	5	10	B_3501	RSKEllnalm	120.000
137	HCV 1b	27	7	10	B_4403	KELLnALMGS	18.000
138	HCV 1b	28	29	9	A1	TADDSELPK	50.000
139	HCV 1b	28	7	9	A1	TSDPLSPSS	15.000
140	HCV 1b	28	3	9	A24	EYDSTSDPL	200.000
141	HCV 1b	28	61	9	A24	RGGGIGGAL	11.200
142	HCV 1b	28	52	9	в7	SVRTTVLFL	200.000
143	HCV 1b	28	19	9	B7	SGRAVAVPL	40.000
144	HCV 1b	28	9	10	B_3501	DPLSpSSEAW	10.000
145	HCV 1b	28	33	10	B_4403	SELPKVLVAS	72.000
146	HCV 1b	28	15	10		SEAWsGRAVA	16.000
147	HCV 1b	28	33	9	B_4403	SELPKVLVA	144.000
148	HCV 1b	28	15	9	B_4403	SEAWSGRAV	16.000
149	HCV 1b	29	40	9	A1	FSDSTRVMF	15.000
150	HCV 1b	29	92	9	A1	GGDPLANLR	12.500
151	HCV 1b	29	128	9	A1	SCDPTRYWL	10.000
152	HCV 1b	29	62	10	A_0201	RSASGETWWV	18.728

153	HCV 1b	29	38	9	A_0201	TLFSDSTRV	257.342
154	HCV 1b	29	106	9	A_0201	VMWEGSVSM	207.569
155	HCV 1b	29	63	9	A_0201	SASGETWWV	39.848
156	HCV 1b	29	177	9	A_0201	FTLSVVMPV	37.815
157	HCV 1b	29	155	9	A_0201	YLCNRTPST	34.279
158	HCV 1b	29	135	9	A_0201	WLSPTWNVT	23.893
159	HCV 1b	29	171	9	A_0201	GTWHGHFTL	14.283
160	HCV 1b	29	98	9	A_0201	NLRLAVSAV	12.158
161	HCV 1b	29	148	9	A24	RGLHAGAYL	12.000
162	HCV 1b	29	133	9	A24	RYWLSPTWN	10.000
1.63	HCV 1b	29	75	10	A24	AFKEGADNWL	28.800
164	HCV 1b	29	39	10	A24	LFSDsTRVMF	12.000
165	HCV 1b	29	133	10	A24	RYWLsPTWNV	10.000
<b>166</b>	HCV 1b	29	46	9	A3	VMFPPISCR	67.500
167	HCV 1b	29	88	9	в7	LAKEGGDPL	12.000
1.68	HCV 1b	29	105	10	в7	AVMWeGSVSM	45.000
169	HCV 1b	29	141	10	В7	NVTSsRRRGL	30.000
170	HCV 1b	29	170	10	в7	AGTWhGHFTL	12.000
171	HCV 1b	29	52	10	в7	SCRHrRLASM	10.000
172	HCV 1b	29	98	10	в7	NLRLaVSAVM	10.000
173	HCV 1b	29	30	10	В8	GSKEsRTTTL	120.000
174	HCV 1b	29	52	10	B8	SCRHrRLASM	80.000
175	HCV 1b	29	88	9	В8	LAKEGGDPL	24.000
176	HCV 1b	29	88	9	B_3501	LAKEGGDPL	18.000
177	HCV 1b	29	30	10	B_3501	GSKEsRTTTL	30.000
178	HCV 1b	29	127	10	в_3501	GSCDpTRYWL	10.000
179	HCV 1b	29	164	10	B_4403	SEKNSGAGTW	36.000
180	HCV 1b	29	114	10	B_4403	MEVStATSGS	18.000
181	HCV 1b	29	66	10	B_4403	GETWWVVHVA	18.000
182	HCV 1b	29	32	9	B_4403	KESRTTTLF	90.000
183	HCV 1b	29	66	9	B_4403	GETWWVVHV	12.000
184	HCV 1b	30	64	9	A1	SLDWSQVLK	20.000
185	HCV 1b	30	84	10	A_0201	SLSHePEHGV	69.552
186	HCV 1b	30	8	10	A_0201	VLLQvLGPTI	65.622
187	HCV 1b	30	38	10	A_0201	MMPSpRQTPL	26.228
188	HCV 1b	30	68	10	A_0201	SQVLkSVNTV	16.219
189	HCV 1b	30	9	10	A_0201	LLQVlGPTIL	14.890
190	HCV 1b	30	3	10	A_0201	NVPChVLLQV	13.997
191	HCV 1b	30	17	9	A_0201	ILMEPFLTC	243.428
192	HCV 1b	30	22	9	A_0201	FLTCPVICA	52.561
193	HCV 1b	30	69	9	A_0201	QVLKSVNTV	51.790
194	HCV 1b	30	16	9	A_0201	TILMEPFLT	21.989
195	HCV 1b	30	9	9	A_0201	LLQVLGPTI	17.736
196	HCV 1b	30	8	9	A_0201	VLLQVLGPT	14.015
197	HCV 1b	30	63	9	A24	RSLDWSQVL	17.280
198		30	46	10	A3	PLYPrWHEKK	45.000
199			64	9	A3	SLDWSQVLK	20.000
200			46	9	A3	PLYPRWHEK	15.000
201			39	9	в7	MPSPRQTPL	80.000
202			57	9	в7	TPGSCGRSL	80.000
203			30	9	в7	APHGQVVCM	60.000
204			4	10	) в7	VPCHvLLQVL	80.000

205	HCV 1b	30	14	10	в7	GPTI1MEPFL	80.000
206	HCV 1b	30	30	10	в7	APHGqVVCMM	60.000
207	HCV 1b	30	76	10	в7	TVHIqSQTSL	20.000
208	HCV 1b	30	48	10	в7	YPRWhEKKGT	20.000
209	HCV 1b	30	39	9	B8	MPSPRQTPL	16.000
210	HCV 1b	30	30	9	B_3501	APHGQVVCM	40.000
211	HCV 1b	30	14	9	B_3501	GPTILMEPF	20.000
212	HCV 1b	30	39	9	B_3501	MPSPRQTPL	20.000
213	HCV 1b	30	57	9	B_3501	TPGSCGRSL	20.000
214	HCV 1b	30	63	9	B_3501	RSLDWSQVL	20.000
215	HCV 1b	30	39	10	B_3501	MPSPrQTPLY	40.000
216	HCV 1b	30	30	10	B_3501	APHGqVVCMM	40.000
217	HCV 1b	30	14	10	B_3501	GPTI1MEPFL	20.000
218	HCV 1b	30	4	10	B_3501	VPCHvLLQVL	20.000
219	HCV 1b	30	87	10	B_4403	HEPEhGVEQS	12.000
220	HCV 1b	30	93	10	B_4403	VEQSsLIHWW	12.000
221	HCV 1b	30	93	9	B_4403	VEQSSLIHW	18.000
222	HCV 1b	31	5	10	A_0201	RLTRsSVEGI	11.758
223	HCV 1b	31	13	9	A3	GISPLMTLK	13.500
224	HCV 1b	31	9	10	B_3501	SSVEgISPLM	20.000
225	HCV 1b	31	8	10	B_3501	RSSVeGISPL	10.000
226	HCV 1b	32	35	10	A1	ATHPpKMLNR	12.500
227	HCV 1b	32	40	10	A_0201	KMLNrRVLWV	8.228.881
228	HCV 1b	32	41	10	A_0201	MLNRrVLWVV	836.241
229	HCV 1b	32	46	10	A_0201	VLWVvSGLVI	60.355
230	HCV 1b	32	52	10	A_0201	GLVIeAVNAI	23.995
231	HCV 1b	32	27	10	A_0201	ALGGaSWAAT	12.668
232	HCV 1b	32	49	10	A_0201	VVSG1VIEAV	11.660
233	HCV 1b	32	77	9	A24	KYCIPLMKF	220.000
234	HCV 1b	32	45	9	A24	RVLWVVSGL	16.800
235	HCV 1b	32	20	9	В7	APTKAEAAL	240.000
236	HCV 1b	32	74	9	в7	KPAKYCIPL	80.000 54.000
237	HCV 1b	32	34	9	B7	AATHPPKML	20.000
238	HCV 1b	. 32	45	9	B7	RVLWVVSGL	20.000
239	HCV 1b	32	6	9	B7	FPRPMLPTA	20.000
240	HCV 1b	32	74	10		KPAKYCIPLM	20.000
241	HCV 1b	32	6	10		FPRPMLPTAA	18.000
242	HCV 1b	32	33	10		WAAThPPKML	12.000
243		32	90	10		AQNVsRARHL PPKM1NRRVL	12.000
244		32	38	10		KPAKyCIPLM	80.000
245		32	74	10		<del>.</del>	20.000
246		32	80 125	10	_		10.000
247		32	125 1	10 10	_		10.000
248		32		9	B_3501		40.000
249			74 20	9	B_3501		20.000
250			20 24	9	B_4403		16.000
251			24	10			48.000
252				10			12.000
253			55 31	9	. Б_4403 А1	SADMHAMMY	125.000
254				9	A1	TTLPVVRQY	12.500
255			2 51	9	A1	WTAPSLYSK	10.000
256	HCV 1b	33	21	9	111		· · · ·

					- 0001	and the second of	305.644
257	HCV 1b	33	36	10	A_0201	AMMY1VMGWV	543.897
258	HCV 1b	33	39	9	A_0201	YLVMGWVRV	449.379
259	HCV 1b	33	37	9	A_0201	MMYLVMGWV	
260	HCV 1b	33	3	9	A_0201	TLPVVRQYA	27.324
261	HCV 1b	33	16	10	A24	RTPPtSTQVL	17.280
262	HCV 1b	33	37	10	A3	MMYLvMGWVR	60.000
263	HCV 1b	33	17	9	в7	TPPTSTQVL	80.000
264	HCV 1b	33	14	9	в7	AARTPPTST	13.500
265	HCV 1b	33	53	9	в7	APSLYSKGV	12.000
266	HCV 1b	33	62	10	B7	GPCSvGFSRM	20.000
267	HCV 1b	33	28	10	в7	TSRSaDMHAM	10.000
268	HCV 1b	33	68	9	в8	FSRMRHFHI	20.000
269	HCV 1b	33	11	10	в8	AARAaRTPPT	16.000
270	HCV 1b	33	28	10	B_3501	TSRSaDMHAM	45.000
271	HCV 1b	33	30	10	B_3501	RSADmHAMMY	40.000
272	HCV 1b	33	62	10	B_3501	GPCSvGFSRM	40.000
273	HCV 1b	33	48	10	B_3501	TSFWtAPSLY	10.000
274	HCV 1b	33	30	9	B_3501	RSADMHAMM	40.000
275	HCV 1b	33	17	9	_ В_3501	TPPTSTQVL	20.000
276	HCV 1b	33	2	9	B_4403	TTLPVVRQY	54.000
277	HCV 1b	33	1	10	B_4403	MTTLpVVRQY	13.500
	HCV 1b	34	15	10	A_0201	WSWQtGNPGV	17.334
278	HCV 1b	35	3	10	в7	EGRSpGVTNL	40.000
279		36	3	9	A3	LLPLPVLPR	36.000
280	HCV 1b		9	10	в7	LPRRCERDTA	30.000
281	HCV 1b	36		9	в7 187	MPLLPLPVL	120.000
282	HCV 1b	36	1			LPRRCERDT	20.000
283	HCV 1b	36	9	9	B7		20.000
284	HCV 1b	36	1	9	B_3501	MPLLPLPVL	21.300
285	HCV 1b	37	3	10	A_0201	KVGSKLKSTV	39.210
286	HCV 1b	37	20	9	A_0201	SITESKSPV	11.200
287	HCV 1b	37	9	10	A24	KSTVWVTHVL	30.000
288	HCV 1b	37	17	9	A3	VLQSITESK	10.000
289	HCV 1b	37	9	10	B_3501	KSTVWVTHVL	10.000
290	HCV 1b	38				no hits	26.228
291	HCV 1b	39	7	9	A_0201		
292	HCV 1b	39	ت 3	9	A_0201	CLPPLMASM	11.426
293	HCV 1b	39	4	10	в7	LPPLmASMGM	20.000
294	HCV 1b	39	4	10	B_3501	LPPLmASMGM	40.000
295	HCV 1b	40	7	9	A1	VTDPGGVAV	25.000
296	HCV 1b	40	7	10	A1	VTDPgGVAVA	25.000
297	HCV 1b	40	6	10	A_0201	TVTDpGGVAV	24.952
298	HCV 1b	40	34	9	B_3501	MPKIVVESV	12.000
299	HCV 1b	40	25	10	B_3501	VSAWsRTVPM	10.000
300	HCV 1b	41	15	10	A1	ALDIYAPNPK	10.000
301	HCV 1b	41	7	10	A_0201	LMLGsIPCAL	97.045
302	HCV 1b	41	6	10	A_0201	VLMLgSIPCA	71.872
303	HCV 1b	41	35	10	A_0201	TLYPwAAYAA	15.898
304	HCV 1b	41	35	9	A_0201	TLYPWAAYA	87.437
305	HCV 1b	41	46	9	A_0201	TLVLLPLPV	69.552
306	HCV 1b	41	7	9	A_0201	LMLGSIPCA	51.908
307	HCV 1b	41	8	9	A_0201	MLGSIPCAL	36.316
308	HCV 1b	41	48	9	A_0201	VLLPLPVGA	31.249

	****** 1.7-	11	c	9	A_0201	VLMLGSIPC	31.249
309	HCV 1b	41	6	9	A_0201 A_0201	MVLTPVLML	27.042
310	HCV 1b	41	1 41	9	A_0201 A24	AYAAGTLVL	200.000
311	HCV 1b	41	41	10	A24	AYAAgTLVLL	200.000
312	HCV 1b	41	15	10	A3	ALDIYAPNPK	20.000
313	HCV 1b	41	1	9	B7	MVLTPVLML	30.000
314	HCV 1b	41 41	42	9	в7	YAAGTLVLL	12.000
315	HCV 1b		44	9	в7	AGTLVLLPL	12.000
316	HCV 1b	41	39	9	в7	WAAYAAGTL	12.000
317	HCV 1b	41 41	22	10	в8	NPKVaATDGL	16.000
318	HCV 1b		22	10	B_3501	NPKVaATDGL	60.000
319	HCV 1b	41 41	50	10	B_3501	LPLPvGACRW	10.000
320	HCV 1b	41	10	10	B_3501	GSIPCALDIY	10.000
321	HCV 1b	41	33	10	B_3501	TSTLYPWAAY	10.000
322	HCV 1b	41 41	10	10	B_4403	GSIPCALDIY	67.500
323	HCV 1b	41	28	10	B_4403	TDGLrTSTLY	22.500
324	HCV 1b	41	29	9	B_4403	DGLRTSTLY	27.000
325	HCV 1b	41	34	9	B_4403	STLYPWAAY	12.000
326	HCV 1b	42	2	10	B_4403	DSTGtKSTAF	10.125
327	HCV 1b	43	4	1.0	D_4403	no hits	
328	HCV 1b	44	1	9	A_0201	MMQPSRPRV	85.394
329	HCV 1b	44	3	9	B_3501	QPSRPRVCW	10.000
330	HCV 1b	45	32	9	A_0201	KMMSPHAAV	650.504
331	HCV 1b	45	16	9	B7	GPRSISFPL	800.000
332	HCV 1b	45	71	9	в7	QSRSGVRWL	40.000
333 334	HCV 1b	45	7	9	в7	HPRPSRLSA	30.000
335	HCV 1b	45	16	9	в8	GPRSISFPL	16.000
336	HCV 1b	45	16	9	в_3501	GPRSISFPL	60.000
337	HCV 1b	45	71	9	B_3501	QSRSGVRWL	15.000
338	HCV 1b	45	30	9	_ В_3501	RPKMMSPHA	12.000
339	HCV 1b	45	26	9	_ В_4403	AETGRPKMM	18.000
340	HCV 1b	45	47	10	A_0201	ILVSmSEKTT	12.668
341	HCV 1b	45	45	10	A3	VMILVSMSEK	45.000
342	HCV 1b	45	39	10	в7	AVSApQVMIL	60.000
343	HCV 1b	45	42	10	B7	APQVmILVSM	60.000
344	HCV 1b	45	4	10	в7	RSRHpRPSRL	40.000
345		45	70	10	<b>B</b> 7	AQSRsGVRWL	12.000
346	HCV 1b	45	15	10	в7	AGPRSISFPL	12.000
347	HCV 1b	45	4	10	В8	RSRHpRPSRL	40.000
348	HCV 1b	45	61	10	в8	TARSTRPAWA	16.000
349	HCV 1b	45	42	10	B_3501	APQVmILVSM	40.000
350	HCV 1b	45	4	10	B_3501	RSRHpRPSRL	30.000
351	HCV 1b	45	30	10	в_3501	RPKMmSPHAA	12.000
352	HCV 1b	45	26	10	B_4403	AETGrPKMMS	12.000
353	HCV 1b	45	52	10	B_4403	SEKTtGSTAT	12.000
354	HCV 1b	46	1	9	A24	MYVPVSAPS	12.600
355	HCV 1b	46	3	9	в7	VPVSAPSFM	20.000
356	HCV 1b	46	3	9	B_3501	VPVSAPSFM	40.000
357	HCV 1b	46	7	9	B_3501	APSFMKAIW	10.000
358	HCV 1b	46	2	10	A_0201	YVPVsAPSFM	10.998
359	HCV 1b	46	1	10	A24	MYVFvSAPSF	180.000
360	HCV 1b	47	58	9	A24	KYCNHHMSL:	400.000

361	HCV 1b	47	9	9	в7	GPSMASRSL	80.000
362	HCV 1b	47	34	9	в7	MASRPPRTL	18.000
363	HCV 1b	47	9	9	B_3501	GPSMASRSL	20.000
364	HCV 1b	47	4	9	B_3501	WSTMSGPSM	10.000
365	HCV 1b	47	51	9	B_4403	CASALVIKY	13.500
366	HCV 1b	47	21	10	A_0201	KISSGWTAHV	33.472
367	HCV 1b	47	32	10	A_0201	RMMAsRPPRT	19.913
368	HCV 1b	47	58	10	A24	KYCNhHMSLA	10.000
369	HCV 1b	47	41	10	A3	TLRGGTHTCK	30.000
370	HCV 1b	47	13	10	в7	ASRSIVMSKI	12.000
371	HCV 1b	47	50	10	B_4403	KCASaLVIKY	27.000
372	HCV 1b	48	70	9	A1	TTDPTPYRY	1.250.000
373	HCV 1b	48	23	9	A3	ALRTTRFSK	60.000
374	HCV 1b	48	16	9	в7	CAPATDAAL	12.000
375	HCV 1b	48	56	9	B_3501	KSSRTYSHL	10.000
376	HCV 1b	48	21	9	_ В_4403	DAALRTTRF	13.500
377	HCV 1b	48	70	10	_ A1	TTDPtPYRYC	12.500
378	HCV 1b	48	19	10	A1	ATDAaLRTTR	12.500
379	HCV 1b	48	23	10	A_0201	ALRTTRFSKV	10.043
380	HCV 1b	48	75	10	A24	PYRYCTSTIF	10.000
381	HCV 1b	48	23	10	в8	ALRTTRFSKV	24.000
382	HCV 1b		51	10	в8	SARRYKSSRT	16.000
383	·	48	67	10	B_4403	TETTLDPTPY	180.000
384		48	20	10	B_4403	TDAAlRTTRF	22.500
385		49				no hits	
386		50	30	9	A_0201	VLLSSSTSV	437.482
387		50	9	9	A_0201	VLVNPVLFI	224.357
388		50	1	9	A_0201	MLHGGPPHV	118.238
389		50	38	9	A_0201	VSFSPQLYV	15.707
390		50	16	9	A_0201	FIHVQPNQL	13.512
391		50	43	9	A3	QLYVGTPER	20.000
392		50	24	9	в7	LPCGGRVLL	120.000
393		50	52	9	в7	SVVPTTTGL	20.000
394		50	24	9	B_3501	LPCGGRVLL	20.000
395		50	57	- 9 -	B_4403	TTGLGVKQY	13.500
396		50	37	10	A_0201	SVSFsPQLYV	33.472
397		50	29	10	A_0201	RVLLsSSTSV	22.517
398		50	23	10	A_0201	QLPCgGRVLL	21.362
399	HCV 1b	50	10	10	A_0201	LVNPvLFIHV	19.657
400	HCV 1b	50	1	10	A_0201	MLHGgPPHVL	14.890
403	L HCV 1b	50	45	10	A_0201	YVGTpERSVV	11.478
402	2 HCV 1b	50	53	10	A_0201	VVPTtTGLGV	10.346
403	HCV 1b	50	15	10	A24	LFIHvQPNQL	36.000
404	4 HCV 1b	50	51	10	A24	RSVVpTTTGL	12.000
40!		50	67	10	в_3501	GPHTcDAGTI	12.000
40		50	51	10	B_3501	RSVVpTTTGL	10.000
40		50	36	10	B_3501	TSVSfSPQLY	10.000
40		50	56	10		TTTGLGVKQY	20.250
40		51	6	10		AMRSGHPDAL	120.000
41		51	8	10			15.000
41.			15	9	A_0201		1.006.209
41			14	9	A_0201		134.369
				-	_	*	

413	HCV 1b	52	8	9	A_0201	SLQFRAVLL	21.362
414	HCV 1b	52	12	9	A24	RAVLLMCQL	14.400
415	HCV 1b	52	12	9	в7	RAVLLMCQL	12.000
416	HCV 1b	52	14	10	A_0201	VLLMcQLPLV	1.006.209
417	HCV 1b	52	19	10	A_0201	QLPLvFTSWI	218.046
418	HCV 1b	52	16	10	A_0201	LMCQlpLVFT	115.740
419	HCV 1b	52	8	10	A_0201	SLQFrAVLLM	11.426
420	HCV 1b	52	13	10	В7	AVLLmCQLPL	60.000
421	HCV 1b	52	2	10	B_3501	NPVWrESLQF	30.000
422	HCV 1b	52	20	10	B_3501	LPLVfTSWIF	20.000
423	HCV 1b	53				no hits	
424	HCV 1b	54	1	9	A_0201	MLLFLAASV	437.482
425	HCV 1b	54	19	9	A_0201	KLLSRTQGT	96.503
426	HCV 1b	54	42	9	A_0201	ILELEQSFV	41.620
427	HCV 1b	54	33	9	A_0201	MIMSAASYT	35.448
428	HCV 1b	54	34	9	A_0201	IMSAASYTI	12.809
429	HCV 1b	54	37	9	в7	AASYTILEL	36.000
430	HCV 1b	54	12	9	в7	SATQQREKL	18.000
431	HCV 1b	54	13	9	в7	ATQQREKLL	12.000
432	HCV 1b	54	45	9	B_4403	LEQSFVTWY	540.000
433	HCV 1b	54	43	9	B_4403	LELEQSFVT	12.000
434	HCV 1b	54	44	10	A1	ELEQSFVTWY	45.000
435	HCV 1b	54	41	10	A_0201	TILELEQSFV	797.922
436	HCV 1b	54	2	10	A_0201	LLFLaASVGV	437.482
437	HCV 1b	54	32	10	A_0201	CMIMSAASYT	29.601
438	HCV 1b	54	4	10	A_0201	FLAAsVGVSA	22.853
439	HCV 1b	54	34	10	A_0201	IMSAaSYTIL	16.130
440	HCV 1b	54	45	10	A_0201	LEQSÍVTWYI	14.226
441	HCV 1b	54	44	10	A3	ELEQsFVTWY	10.800
442	HCV 1b	54	49	10	в7	FVTWyIPDTL	20.000
443	HCV 1b	54	12	10	в7	SATQqREKLL	12.000
444	HCV 1b	54	36	10	В7	SAASYTILEL	12.000
445	HCV 1b	54	12	10	B8	SATQQREKLL	16.000 24.000
446		54	43	10	B_4403	LELEQSFVTW	13:500
447		54	31	10	В_4403	VCMImSAASY	27.454
448		55	14	9	A_0201	KEQPGRFPV	40.000
449		55	12	9	B_4403	IEKEQPGRF	12.000
450		55	14	9	B_4403	KEQPGRFPV	120.000
451		56	42	9	B7	HPAHPIPSL RVSMTLPKL	20.000
452		56	12	9	B7		20.000
453		56	42	9	B_3501 A24	KPHVrVSMTL	11.200
454		56	8	10		KPHVrVSMTL	80.000
455		56	8	10 10		EPRGdRSHPA	20.000
456		56	35	10		YPMRsAKPHV	12.000
457			2			EPRGdRSHPA	32.000
458			35 19	10 10		KLRD1RRGSV	18.000
459			19	10			40.000
460				10			18.000
461			6 15	9	А24	PYQAVPQGL	50.400
462			15	9	A24 A3	GLSRPNTTR	18.000
463			22	9	дэ В7	LSRPNTTRL	40.000
46	4 HCV 1b	57	23	9	۱ دد	TOTAL IN I SIMI	

465	HCV 1b	57	8	9	B_3501	LPGHSQAPY	40.000
466	HCV 1b	57	23	9	B_3501	LSRPNTTRL	15.000
467	HCV 1b	57	22	10	A_0201	GLSRPNTTRL	21.362
468	HCV 1b	57	14	10	в7	APYQaVPQGL	240.000
469	HCV 1b	57	14	10	B_3501	APYQaVPQGL	20.000
470	HCV 1b	58	63	9	A1	QVDAYPYRK	20.000
471	HCV 1b	58	2	9	A_0201	RLTDLSQLA	20.369
472	HCV 1b	58	46	9	A24	KWPIGLECL	12.000
473	HCV 1b	58	63	9	A3	QVDAYPYRK	18.000
474	HCV 1b	58	43	9	в7	KNRKWPIGL	40.000
475	HCV 1b	58	61	9	B_4403	GEQVDAYPY	180.000
476	HCV 1b	58	60	10	A1	VGEQvDAYPY	22.500
477	HCV 1b	58	2	10	A_0201	RLTDLSQLAV	285.163
478	HCV 1b	58	55	10	B7	APRSsVGEQV	120.000
479	HCV 1b	58	11	10	в7	VTRAKMEPPL	40.000
480	HCV 1b	58	55	10	B_3501	APRSsVGEQV	12.000
481	HCV 1b	58	58	10	B_3501	SSVGeQVDAY	10.000
482	HCV 1b	58	58	10	B_4403	SSVGeQVDAY	54.000
483	HCV 1b	59	1	9	B_3501	MSPDSQGWY	20.000
484	HCV 1b	60				no hits	
485	HCV 1b	61	2	9	в7	WGRQLAGFL	40.000
486	HCV 1b	62	7	9	в7	VAQRVDGQL	12.000
487	HCV 1b	62	10	10	A1	RVDGqLAFLR	25.000
488	HCV 1b	62	6	10	A24	RVAQrVDGQL	11.200
489	HCV 1b	62	6	10	B7	RVAQrVDGQL	20.000
490	HCV 1b	63	7	9	A24	RLQGRRRQL	12.000
491	HCV 1b	64	16	9	в7	TVFDMSGDL	20.000
492	HCV 1b	64	12	9	в7	DPHGTVFDM	20.000
493	HCV 1b	64	34	9	в7	DAVSPPDSL	18.000
494	HCV 1b	64	12	9	B_3501	DPHGTVFDM	40.000
495	HCV 1b	64	37	10	в7	SPPDsLVPAL	80.000
496	HCV 1b	64	37	10	B_3501	SPPDsLVPAL	40.000
497	HCV 1b	64	9	10	B_3501	RPDDpHGTVF	24.000
498	HCV 1b	65	53	9	в7	KPRSSRLRL	1.200.000
499	HCV 1b	65	53	9	B_3501	KPRSSRLRL	120.000
500	HCV 1b	65	28	10	A_0201	RQGHLLDVWV	38.785
501	HCV 1b	65	53	10	в7	KPRSsRLRLV	40.000
502	HCV 1b	65	53	10	B8	KPRSsRLRLV	24.000
503	HCV 1b	65	23	10	B8	DLSSIRQGHL	16.000
504	HCV 1b	65	53	10	B_3501	KPRSsRLRLV	24.000
505	HCV 1b	65	4	10	B_4403	NEMPsPPDGF	160.000
506	HCV 1b	66	42	9	в7	DVGVNTVCL	20.000
507	HCV 1b	66	14	9	в7	RATTIGKKL	12.000
508	HCV 1b	67				no hits	450.050
509	HCV 1b	68	25	9	A_0201	NLSLDLVLV	159.970
510	HCV 1b	68	16	9	A_0201	GLCCGGNHL	21.362
511	HCV 1b	68	1	9	A_0201	MVNGPTHAV	10.346
512	HCV 1b	68	29	9	A3	DLVLVPACK	13.500
513		68	8	10		AVDAgRQEGL	18.000
514		69	12	9	A_0201	QLHEGHLDI	42.774
515		69	10	9	A24	RAQLHEGHL	12.000
516	HCV 1b	69	10	9	в7	RAQLHEGHL	12.000

- 80 -

							200 000
517	HCV 1b	69	4	10	в7	NVRACQRAQL	300.000
518	HCV 1b	70	18	9	B_4403	LEHHERTEY	180.000
519	HCV 1b	70	17	10	A1	SLEHHERTEY	45.000
520	HCV 1b	70	9	10	в7	EVRHsGYASL	200.000
521	HCV 1b	70	6	10	B_3501	SAHEVRHSGY	12.000
522	HCV 1b	71	19	9	A1	RGDPHLQVR	12.500
523	HCV 1b	71	19	10	A24	RGDPhLQVRL	11.520
524	HCV 1b	71	25	10	в7	QVRLgPGDKI	30.000
525	HCV 1b	72				no hits	
526	HCV 1b	73				no hits	
527	HCV 1b	74	2	9	A24	VYPGHVAHL	300.000
528	HCV 1b	74	1	10	A_0201	MVYPgHVAHL	23.388
529	HCV 1b	74	2	10	A24	VYPGhVAHLV	10.500
530	HCV 1b	74	1	10	в7	MVYPgHVAHL	20.000
531	HCV 1b	75				no hits	

Table 4e 2a (1-3)

No.	Strain	ORF	Start	AA I	HLA	Peptide sequence	Score
1	2a	1	2	9	в3501	TPGIGRVTW	10
2	2a	2	40	9	A0201	QMWLCSSAA	29,78
3	2a	2	35	9	A24	GYRSHQMWL	200
4	2a	2	3	10	в3501	VPMTASPGSF	20
5	2a	2	19	10	в3501	SPGASRAREW	10
6	2a	2	34	10	в7	AGYRSHQMWL	12
7	2a	2	22	9	в7	ASRAREWEI	12
8	2a	2	22	9	B8	ASRAREWEI	20
9	2a	4	16	10	A0201	ILTPLTSNVV	48,478
10	2a	4	15	10	A0201	SILTPLTSNV	35,385
11	2a	4	11	10	A0201	TVLGSILTPL	15,907
12	2a	4	12	10	A0201	VLGSILTPLT	12,668
13	2a	4	16	9	A0201	ILTPLTSNV	118,238
14		4	12	9	A0201	VLGSILTPL	83,527
15		4	5	9	A24	TFCAPRTVL	20
16		4	8	10	B3501	APRTVLGSIL	60
17		4	8	9	B3501	APRTVLGSI	24
18		4	18	9	B3501	TPLTSNVVL	20
19		4	27	9	B3501	GPGSRRGAW	10
20		4	8	10	в7	APRTVLGSIL	2400
21		4	11	10	в7	TVLGSILTPL	20
22		4	8	9	в7	APRTVLGSI	240
23		4	18	9	в7	TPLTSNVVL	80
23 24		4	8	10	в8	APRTVLGSIL	16
25		4	6	8	в8	FCAPRTVL	16
26		5	5	8	B3501	LPLQNMSF	20
27		6	4	10	A0201	YILSSFSWLL	1424,811
28		6	9	10	A0201	FSWLLGTSKV	17,334
29		6	5	9	A0201	ILSSFSWLL	1035,008
30		6	4	9	A0201	YILSSFSWL	522,431
31		6	44	9	A0201	RLMPMMHLC	42,278
32		- 5			A1	RLMPMMHLCK	10
33		5	3	10	A24	SYILSSFSWL	360
34		6	45	9	A3	LMPMMHLCK	40
35		6	37	10	B3501	CSSHCPNRLM	10
36		6	41	8	B3501	CPNRLMPM	40
37		6	23	9	B3501	WPPIPSPAY	40
38		6	28	9	B3501	SPAYGPFAY	40
39		6	41	9	в3501	CPNRLMPMM	40
40		6	26	9	B3501	IPSPAYGPF	20
4		6	38	9	B3501	SSHCPNRLM	10
42		6	41	9	в7	CPNRLMPMM	20
4:		7	2	10	A0201	ALYGLPPYSA	15,898
4		7		9	A0201	GLPPYSARV	69,552
4!		7		9	A24	PYSARVWCL	20
4		8		10		GLPTACGTWR	12
4		8		8	в3501	SPLCRIGL	20
4		8		8	B3501	LPTACGTW	10
	9 2a	8		9	в7	TACGTWRSL	12
	0 2a	8	_	8	В8	SPLCRIGL	16
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WO 2004/011650

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51	2a	9	21	8	B3501	TPPRGGSF	20
52	2a	9	5	9	B3501	CPPDSVGRF	40
53	2a	9	35	9	в3501	TPSRHEVSW	10
54	2a	9	9	10	в7	SVGRFSLAQL	20
55	2a	9	10	9	В7	VGRFSLAQL	40
56	2a	10	8	10	A24	KAPKSLSRTL	14,4
57	2a	10	9	9	в3501	APKSLSRTL	60
58	2a	10	8	10	в7	KAPKSLSRTL	12
59	2a	10	9	9	в7	APKSLSRTL	240
60	2a	10	5	9	в7	AVEKAPKSL	18
61	2a	10	9	9	в8	APKSLSRTL	16
62	2a	11	4	10	в3501	IPTLGLESEL	20
63	2a	11	4	10	в7	IPTLGLESEL	80
64	2a	1 <b>1</b>	1	9	B7	MASIPTLGL	18
65	2a	12	19	10	A0201	YATNATPWTL	10,236
66	2a	12	33	10	A1	ASEQFLTKQR	13,5
67	2a	12	28	10	B3501	LPPSSASEQF	20
68	2a	12	11	9	B3501	RAAPMTSSY	12
69	2a	12	11	9	B4403	RAAPMTSSY	18
70	2a	12	19	10	в7	YATNATPWTL	12
71	2a	12	13	9	в7	APMTSSYAT	18
72	2a	12	20	9	в7	ATNATPWTL	12
73	2a	14	12	10	A0201	MLWHTTEGWT	75,181
74	2a	14	8	9	A0201	GAWAMLWHT	14,819
75	2a	14	5	10	в3501	RPFGAWAMLW	20
76	2a	14	5	8	в3501	RPFGAWAM	80
77	2a	14	5	9	в3501	RPFGAWAML	40
78	2a	14	4	10	в3901	RRPFGAWAML	15
79	2a	14	5	9	в7	RPFGAWAML	80
80	2a	15	5	10	A1	VSEPQGCLIA	67,5
81	2a	15	5	9	A1	VSEPQGCLI	13,5
82	2a	15	26	10	A24	RGMSLRQRRL	12
83	2a	15	6	10	B4403	SEPQGCLIAW	36
84	2a	15	26	10	в7	RGMSLRQRRL	12
85	2a	15	4	9	в7	LVSEPQGCL	30
86	2a	15	17	9	в7	SVSATTQGL	20
87	2a	16	5	10	B3501	FPKQSNRGRI	24
88	2a	16	5	10	в7	FPKQSNRGRI	12
89	2a	17	3	10	A0201	LLMKWRNVPL	134,369
90	2a	17	2	9	A0201	RLLMKWRNV	87,496
91	2a	17	8	10	A24	RNVPLKRLSL	14,4
92	2a	17	4	10	A3	LMKWRNVPLK	60
93	2a	17	16	10	A3	SLKRGSGWPR	12
94	2a	17	10	8	B3501	VPLKRLSL	20
95	2a	17	3	10	в7	LLMKWRNVPL	12
96	2a	17	9	9	в7	NVPLKRLSL	30
97	2a	17	10	8	в8	VPLKRLSL	16
98	2 <b>a</b>	17	4	9	В8	LMKWRNVPL	80
99	2a	18	15	10	A0201	TLARSPPWRT	55,89
100	2a	18	26	9	A0201	SICCLGFCL	17,037
101	2a	18	9	10	A3302	SSHSRSTLAR	15
102	2a	18	7	10	в3501	GPSSHSRSTL	20
103	2a	18	7	10	в7	GPSSHSRSTL	120

WO 2004/011650

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104	2a	20	4	9	A0201	RLPLGSIHL	21,362
105	2a	20	4	9	A24	RLPLGSIHL	12
106	2a	20	5	8	B3501	LPLGSIHL	20
107	2a	20	2	9	B3501	RSRLPLGSI	12
108	2a	21	1	10	A0201	MMWTWWMPTC	116,441
109	2a	21	1	9	A0201	MMWTWWMPT	129,098
110	2a	21	6	9	A0201	WMPTCSWGA	123,786
111	2a	21	7	9	B3501	MPTCSWGAM	40
112	2a	21	7	9	в7	MPTCSWGAM	20
113	2a	22	37	10	A0201	LMSWPFRRQV	64,9
114	2a	22	57	10	A0201	SLGIQTWSPT	12,668
115	- 2a	22	6	10	в3501	WPSKPSASPL	20
116	2a	22	35	8	B3501	RPLMSWPF	40
117	2a	22	30	8	B3501	TPAVGRPL	20
118	2a	22	40	8	B3501	WPFRRQVL	20
119	2a	22	51	8	в3501	CPPSRGSL	20
120	2a	22	30	9	B3501	TPAVGRPLM	40
121	2a	22	6	10	В7	WPSKPSASPL	80
122	2a	22	49	10	В7	PPCPPSRGSL	12
123	2 <b>a</b>	22	30	9	в7	TPAVGRPLM	30
124	2a	22	40	8	в8	WPFRRQVL	16
125	2a	22	51	8	в8	CPPSRGSL	16
126	2a	24	55	10	A0201	KQLALSFTLT	18,59
127	2a	24	57	10	A0201	LALSFTLTSV	13,975
128	2a	24	75	9	A0201	FMMSHKSFL	1444,253
129	2a	24	55	9	A0201	KQLALSFTL	162,682
130	2a	24	58	9	A0201	ALSFTLTSV	159,97
131	2a	24	56	9	A0201	QLALSFTLT	14,159
132	2a	24	47	9	A1	WTPPRGVRK	10
133	2a	24	7	10	A24	RFAACPGGPL	40
134	2a	24	55	9	A24	KQLALSFTL	14,4
135	2a	24	51	9	A24	RGVRKQLAL	12
136	2a	24	75	10	A3	FMMSHKSFLR	18
137	2a	24	32	10	A3	HQFLRPSWPK	13,5
138	2a	24	76	9	A3	MMSHKSFLR	12
139	2a	24	48	10	в3501	TPPRGVRKQL	20
140	2a	24	73	10	B3501	WPFMMSHKSF	20
141	2a	24	68	10	в3501	GSARRWPFMM	10
142	2 <b>a</b>	24	69	8	B3501	SARRWPFM	18
143	2a	24	20	8	B3501	SPCGRTSW	10
144	2a	24	39	9	B3501	WPKMRCSAW	30
145	2a	24	69	9	B3501	SARRWPFMM	18
146	2a	24	68	9	B3501	GSARRWPFM	10
147	2a	24	48	10	в7	TPPRGVRKQL	120
148	2a	24	58	10	в7	ALSFTLTSVL	12
149	2a	24	49	9	В7	PPRGVRKQL	120
150	2a	24	69	9	в7	SARRWPFMM	30
151	2 <b>a</b>	24	8	9	В7	FAACPGGPL	18
152	2a	24	75	9	в7	FMMSHKSFL	12
153	2a	24	34	9	в7	FLRPSWPKM	10
154	2a	24	39	8	В8	WPKMRCSA	16
155	2a	26	23	10	A0201	RLAPCLRRPV	13,91
156	2a	26	7	9	A0201	TLPSLRETL	10,468

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157	2a	26	14	10	A1	TLELRRPYTR	18
158	2a	26	20	9	A24	PYTRLAPCL	24
159	2a	26	14	10	A3101	TLELRRPYTR	10
160	2a	26	10	10	A3	SLRETLELRR	12
161	2a	26	14	10	A3	TLELRRPYTR	12
162	2a	26	27	9	A3	CLRRPVLPY	36
163	2a	26	19	10	в3501	RPYTRLAPCL	40
164	2a	26	8	10	в3501	LPSLRETLEL	30
165	2a	26	8	8	в3501	LPSLRETL	20
166	2a	26	25	9	B3501	APCLRRPVL	20
167	2a .	26	8	10	в7	LPSLRETLEL	80
168	2a	26	19	10	в7	RPYTRLAPCL	80
169	2a	26	2	10	B7	TPDALTLPSL	24
170	2a	26	24	10	в7	LAPCLRRPVL	18
171	2a	26	25	9	B7	APCLRRPVL	360
172	2a	26	16	9	в7	ELRRPYTRL	60
173	2a	26	24	10	в8	LAPCLRRPVL	16
174	2a	26	8	8	в8	LPSLRETL	16
175	2a	26	10	8	в8	SLRETLEL	12
176	2a	26	16	9	в8	ELRRPYTRL	16
177	2a	26	25	9	в8	APCLRRPVL	16
178	2a	27	3	10	A0201	WLSSQKARGL	19,653
179	2a	28	2	10	A0201	CLWHSAYRAA	12,37
180	2a	28	2	9	A0201	CLWHSAYRA	41,234
181	2a	31	2	10	в7	APVPPRFSSL	240
182	2a	31	4	9	в7	VPPRFSSLL	80
183	2a	31	2	10	в8	APVPPRFSSL	16
184	2a	32	14	10	A24	SYGVGHDDEL	220
185	2a	32	19	9	B4403	HDDELVTHY	67,5
186	2a	34	14	9	A3	VLFHPQPSR	30
187	2a	34	4	10	B3501	SPREVRVRPS	12
188	2a	34	7	9	в7	EVRVRPSVL	200
189	2a	34	4	10	В8	SPREVRVRPS	12
190	2a	34	7	8	в8	EVRVRPSV	24
191	2a	34	7	9	в8	EVRVRPSVL	160
192	2a	35	1	9	в7	MVRLHVDEL	200
193	2a	36	14	9	A0201	RLPLQALAL	21,362
194	2a	36	2	10	A24	WFWALAHAEF	11
195	2a	36	14	9	A24	RLPLQALAL	12
196	2a	36	5	10	A3	ALAHAEFPGR	12
197	2a	36	11	10	B3501	FPGRLPLQAL	20
198	2a	36	15	10	B3501	LPLQALALPL	20
199	2a	36	15	8	B3501	LPLQALAL	20
200	2a	36	11	10	в7	FPGRLPLQAL	120
201	2a	36	15	10	в7	LPLQALALPL	80
202	2a	36	6	10	в7	LAHAEFPGRL	12
203	2a	37	6	10	A0201	LLFLRLARFV	481,23
204	2a	37	10	10	A0201	RLARFVDWST	55,89
205	2a	37	3	9	A0205	HLALLFLRL	14
206	2a	37	17	9	A1	WSTPPPPKY	15
207	2a	37	3.5	9	A1	VTCPYKICR	12,5
208	2a	37	24	10	A24	KYRGRTIHVW	10
209	2a	37	43	9	A24	RSMGVGSAL	16,8

- 85 -

210	2a	37	24	9	A24	KYRGRTIHV	10
211	2a	37	31	10	A3	HVWPVTCPYK	15
212	2a	37	60	9	A3	GLRLRVDAY	36
213	2a	37	6	9	A3	LLFLRLARF	15
214	2a	37	5	9	A3	ALLFLRLAR	12
215	2a	37	52	10	B3501	IPSPSGRQGL	20
216	2a	37	54	10	B3501	SPSGRQGLRL	20
217	2a	37	54	8	B3501	SPSGRQGL	20
218	2a	37	37	9	в3501	CPYKICRSM	40
219	2a	37	17	9	в3501	WSTPPPPKY	10
220	2a	37	43	9	B3501	RSMGVGSAL	10
221	2a	37	59	10	B4403	QGLRLRVDAY	18
222	2a	37	78	9	B4403	REAGRLARC	18
223	2a	37	52	10	в7	IPSPSGRQGL	120
224	2a	37	54	10	в7	SPSGRQGLRL	80
225	2a	37	60	10	в7	GLRLRVDAYL	40
226	2a	37	37	9	в7	CPYKICRSM	20
227	2a	37	43	9	в7	RSMGVGSAL	12
228	2a	37	54	8	в8	SPSGRQGL	16
229	2a	38	2	9	A0201	ALLPTAPRT	27,572
230	2a	38	7	9	B3501	APRTAPTGL	60
231	2a	38	7	10	в7	APRTAPTGLC	90
232	2a	38	6	10	в7	TAPRTAPTGL	12
233	2a	38	7	9	в7	APRTAPTGL	2400
234	2a	38	7	9	В8	APRTAPTGL	16
235	2a	40	12	10	в3501	RPTRSGDSPW	20
236	2a	42	9	10	A24	RYHHPRHRNS	10
237	2a	42	9	9	A24	RYHHPRHRN	10
238	2a	43	6	10	A0201	AILGQTHVEL	10,868
239	2a	43	7	9	A0201	ILGQTHVEL	36,316
240	2a	43	6	10	в7	AILGQTHVEL	12
241	2a	44	29	10	A1	ACDPTAWLPY	1250
242	2a	44	13	8	в3501	KPRRPYPL	120
243	2a	44	31	8	в3501	DPTAWLPY	40
244	2a	44	31	9	в3501	DPTAWLPYY	40
245	2a -	44	30	10	в4403	CDPTAWLPYY	22,5
246	2a	44	29	10	в4403	ACDPTAWLPY	18
247	2a	44	2	9	B4403	DEQAHSLCF	120
248	2a	44	30	9	B4403	CDPTAWLPY	22,5
249	2a	44	31	9	B4403	DPTAWLPYY	13,5
250	2a	44	27	10	в7	VAACDPTAWL	18
251	2a	44	28	9	в7	AACDPTAWL	54
252	2a	45	1	9	A0201	MLCEGPSGL	148,896
253	2a	46	12	10	A0201	YMGPHGPDDT	12,131
254	2a	46	14	10	B3501	GPHGPDDTFF	30
255	2a	46	6	8	B3501	HPVCSNYM	40
256	2a	46	17	8	в3501	GPDDTFFL	12
257	2a	46	14	9	в3501	GPHGPDDTF	20
258	2a	47	2	10	в7	SVVQPPGPPL	30
259	2a	47	3	9	в7	VVQPPGPPL	30
			-	-			

- 86 -

Table 4f 2a (4-6)

No.	Strain	ORF	Start	AA	HLA	Peptide sequence	Score
1	HCV 2a	1	10	9	A_0201	YSWSILDDV	19.536
2	HCV 2a	2	8	10	A_0201	RLLQgEELCA	18.382
3	HCV 2a	2	10	10	A_0201	LQGEeLCADL	15.096
4	HCV 2a	2	6	10	в7	LARLLQGEEL	120.000
5	HCV 2a	2	6	10	В8	LARLLQGEEL	16.000
6	HCV 2a	3				no hits	
7	HCV 2a	4	12	9	A_0201	KGYEPVHPL	14.728
8	HCV 2a	4	56	9	A3	VLHGGLLAR	18.000
9	HCV 2a	4	48	9	B7	NPRQQIDDV	40.000
10	HCV 2a	4	48	9	B_3501	NPRQQIDDV	12.000
11	HCV 2a	4	70	9	B_4403	DEGPRNARA	24.000
12	HCV 2a	4	13	10	A1	GYEPvHPLDR	22.500
13	HCV 2a	4	60	10	A_0201	GLLArHDLEC	18.382
14	HCV 2a	4	79	10	в7	IPRQdIHQHL	800.000
15	HCV 2a	4	48	10	в7	NPRQqIDDVL	800.000
16	HCV 2a	4	75	10	в7	NARAİPRQDI	27.000
17	HCV 2a	4	79	10	В8	IPRQdIHQHL	16.000
18	HCV 2a	4	48	10	В8	NPRQqIDDVL	16.000
19	HCV 2a	4	79	10	B_3501	IPRQdIHQHL	60.000
20	HCV 2a	4	48	10	B_3501	NPRQqIDDVL	60.000
21	HCV 2a	4	15	10	B_3501	EPVHpLDRAF	20.000
22	HCV 2a	4	70	10	B_4403	DEGPTNARAI	36.000
23	HCV 2a	5	6	9	A_0201	LVGNRAQTV	10.346
24	HCV 2a	6	10	9	A1	RVEIRSKPY	45.000
25	HCV 2a	6	36	9	A1	LTEHHAIKH	11.250 243.432
26	HCV 2a	6	25	9	A_0201	KLIPRSPCV	30.000
27	HCV 2a	6	35	9	A3	ALTEHHAIK	30.000
28	HCV 2a	6	27	9	B7	IPRSPCVVA KLIPrSPCVV	99.807
29	HCV 2a	6	25	10	A_0201 A_0201	VLAHgQARRV	23.648
30	HCV 2a	6 6	2 17	10	A_0201 A24	PYGS1RWRKL	22.000
31	HCV 2a HCV 2a	6	16	10	A3	KPYGsLRWRK	13.500
32 33	HCV 2a	6	20	10	A3	SLRWrKLIPR	12.000
34	HCV 2a	6	27	10	в7	IPRSpCVVAL	800.000
35	HCV 2a	6	12	10	в7	EIRSkPYGSL	60.000
36	HCV 2a	6	27	10	в8	IPRSpCVVAL	16.000
37	HCV 2a	6	27	10	B_3501	IPRSpCVVAL	60.000
38	HCV 2a	6	14	10	Б_3501	RSKPyGSLRW	15.000
39	HCV 2a	6	11	10	B_4403	VEIRSKPYGS	30.000
40	HCV 2a	7	25	9	A_0201	TLLPEGHLL	79.041
41	HCV 2a	7	26	9	A3	LLPEGHLLY	12.000
42	HCV 2a	7	18	9	в7	SPIEGDLTL	80.000
43	HCV 2a	7	18	9	B_3501	SPIEGDLTL	40.000
44	HCV 2a	7	2	9	B_4403	AEDQVSPSL	12.000
45	HCV 2a	7	25	10	A1	TLLPeGHLLY	25.000
46	HCV 2a	7	26	10	A_0201	LLPEGHLLYI	919.865
47	HCV 2a	7	17	10	A24	RSPIeGDLTL	12.000

- 87 -

48	HCV 2a	7	1	10	A24	MAEDqVSPSL	10.080
49	HCV 2a	7	25	10	A3	TLLPeGHLLY	18.000
50	HCV 2a	7	18	10	в7	SPIEGDLTLL	80.000
51	HCV 2a	7	11	10	в7	DVRQgKRSPI	30.000
52	HCV 2a	7	11	10	в8	DVRQgKRSPI	40.000
53	HCV 2a	7	42	10	B_3501	RPRGsGRGQY	240.000
54	HCV 2a	7	18	10	B_3501	SPIEgDLTLL	60.000
55	HCV 2a	7	17	10	B_3501	RSPIeGDLTL	10.000
56	HCV 2a	8	9	10	B_3501	KPQGgSHRGI	16.000
57	HCV 2a	9	8	9	A_0201	GLGHSWWCA	63.342
58	HCV 2a	9	-23	9	B_3501	RPRDDVECF	360.000
59	HCV 2a	9	34	9	B_4403	DEVYGLSHA	36.000
60	HCV 2a	9	8	10	A_0201	GLGHsWWCAV	118.238
61	HCV 2a	9	6	10	A_0201	LVGLgHSWWC	30.483
62	HCV 2a	9	30	10	A24	CFNGdEVYGL	30.000
63	HCV 2a	9	23	10	B_3501	RPRDÖVECFN	24.000
64	HCV 2a	9	28	10	B_4403	VECFnGDEVY	120.000
65	HCV 2a	10	22	9	B7	AARWRATSL	360.000
66	HCV 2a	10	22	9	в8	AARWRATSL	320.000
67	HCV 2a	10	15	10	A1	GIEVgSNAAR	18.000
68	HCV 2a	10	21	10	в7	NAARWRATSL	12.000
69	HCV 2a	10	21	10	В8	NAARWRATSL	16.000
70	HCV 2a	10	16	10	B_4403	IEVGSNAARW	54.000
71	HCV 2a	11	45	9	A24	STNDVYDDL	10.080
72	HCV 2a	11	26	9	B7	GPRSLHREV	40.000
73	HCV 2a	11	41	9	в7	APMSSTNDV	36.000
74	HCV 2a	11	26	9	B_3501	GPRSLHREV	12.000
75	HCV 2a	11	37	9	B_4403	AEHNAPMSS	12.000
76	HCV 2a	11	41	10	B_3501	APMSsTNDVY	40.000
77	HCV 2a	11	32	10	B_4403	REVGqAEHNA	18.000
78	HCV 2a	11	41	10	B_4403	APMSsTNDVY	12.000
79	HCV 2a	12	13	9	A24	AFLHKPVVL	30.000
80	HCV 2a	12	14	9	A3	FLHKPVVLR	18.000
81	HCV 2a	12	60	9	в7	ALREGAALL	120.000
82	HCV 2a	12	20	9	в7	VLRRDNEHL	40.000
83	HCV 2a	12	59	9	в7	QALREGAAL	12.000
84	HCV 2a	12	60	9	в8	ALREGAALL	12.000
85	HCV 2a	12	25	9	в_4403	NEHLGCQHY	120.000
86	HCV 2a	12	24	10		DNEHLGCQHY	11.250
87	HCV 2a	12	53	10		HVDVrPQALR	10.000
88	HCV 2a	12	6	10		TQVDgAIAFL	112.335
89	HCV 2a	12	14	10		FLHKpVVLRR	36.000
90	HCV 2a	12	19	10		VVLRrDNEHL	20.000
91	HCV 2a	12	12	10		IAFLhKPVVL	12.000 12.000
92	HCV 2a	12	59	10		QALReGAALL	16.000
93	HCV 2a	12	12	10		IAFLhKPVVL	48.000
94	HCV 2a	12	36	10	B_4403	AEVPhVESRA	40.000
95	HCV 2a		_		<b></b>	no hits	120.000
96	HCV 2a	14	18	9	B7	EPSCPAESL	20.000
97	HCV 2a		18	9	B_3501		12.562
98	HCV 2a		7	9	A_0201		11.200
99	HCV 2a	15	7	9	A24	RQARVTFQL	11.200

							100 000
100	HCV 2a	15	8	10	в7	QARVtFQLWL	120.000
101	HCV 2a	15	8	10	В8	QARVtFQLWL	16.000
102	HCV 2a	15	22	10	в_3501	DSRStPIRTF	15.000
103	HCV 2a	15	3	10	B_4403	AEGRrQARVT	12.000
104	HCV 2a	16	1	10	A_0201	MLSApGHIPV	118.238 20.000
105	HCV 2a	17	19	10	B_3501	MPPS1PEEAF	12.000
106	HCV 2a	17	4	10	B_4403	RETPpAGRGS	12.000
107	HCV 2a	18		_		no hits	24.000
108	HCV 2a	19	16	9	B_4403	RESPERPLW	15.180
109	HCV 2a	19	2	10	A_0201	VLRATGRSFL	
110	HCV 2a	19	14	10	в7	SGRESPERPL	60.000
111	HCV 2a	19	2	10	в7	VLRAYGRSFL	60.000
112	HCV 2a	20	6	9	B_3501	GSPRSLPQM	10.000
113	HCV 2a	20	10	1.0	A_0201	SLPQmGVTPA	11.426
114	HCV 2a	20	2	10	В7	APIAgSPRSL	240.000
115	HCV 2a	20	11	10	в7	LPQMgVTPAL	80.000
116	HCV 2a	20	7	10	в7	SPRS1PQMGV	60.000
117	HCV 2a	20	15	10	В7	GVTPaLSAAL	20.000
118	HCV 2a	20	2	10	B_3501	APIAgSPRSL	20.000
119	HCV 2a	20	11	10	B_3501	LPQMgVTPAL	20.000
120	HCV 2a	20	7	10	B_3501	SPRS1PQMGV	12.000
121	HCV 2a	21				no hits	
122	HCV 2a	22	19	9	В7	APCPGLCCL	240.000
123	HCV 2a	22	16	9	в7	YPPAPCPGL	120.000
124	HCV 2a	22	8	9	B_3501	CPRHTPPGY	120.000
125	HCV 2a	22	16	9	B_3501	YPPAPCPGL	20.000
126	HCV 2a	22	19	9	B_3501	APCPGLCCL	20.000
127	HCV 2a	22	23	10	A_0201	GLCCLQQPPL	21.362
128	HCV 2a	22	15	10	A24	GYPPaPCPGL	360.000
129	HCV 2a	23	5	9	B_3501	KPQQDSLVV	12.000
130	HCV 2a	23	5	10	A24	KPQQdSLVVL	12.000
131	HCV 2a	23	5	10	в7	KPQQdSLVVL	80.000
132	HCV 2a	23	5	10	B_3501	KPQQdSLVVL	40.000
133	HCV 2a	24				no hits	
134	HCV 2a	25	5	10	в7	LPRPpQLGPT	20.000
135	HCV 2a	25	7	10	B_3501	RPPQLGPTCW	20.000
136	HCV 2a	26				no hits	
137	HCV 2a	27	9	9	A24	LFGKGSGHL	20.000
138	HCV 2a	27	3	10	A1	NSPPIALFGK	15.000
139	HCV 2a	27	8	10	A_0201	ALFGKGSGHL	10.275
140	HCV 2a	27	8	10	в7	ALFGKGSGHL	12.000
141	HCV 2a	28	20	9	A_0201	SLNGRRSSV	69.552
142	HCV 2a	28	22	9	в7	NGRRSSVSL	40.000
143	HCV 2a	28	11	9	B_3501	GPPRAHHTF	20.000
144	HCV 2a	28	12	10	в7	PPRAhHTFSL	80.000
145	HCV 2a	29	4	10	A3	TLWPpRSSQF	15.000
146	HCV 2a	30				no hits	
147		31	10	10	в7	AVRGaVGKRA	15.000
148		32	28	9	A24	VYRSCPPRL	200.000
149		32	18	9	В7	SPPTCKWAL	80.000
150		32	18	9	в_3501	SPPTCKWAL	20.000
151		32	14	10	_	HLSHsPPTCK	30.000

			<b>.</b>	20	27	1.0	D7	QVYRsCPPRL	20.000
1.5		HCV 2		32	27	10	В7	no hits	
15		HCV 2		33				no hits	
15		HCV 3		34 35	8	9	A1	GLEAVRHSY	45.000
15 15		HCV :		35	8	9	A3	GLEAVRHSY	18.000
	5 <b>7</b>	HCV :		35	1	9	B7	MALPGGGGL	12.000
	58	HCV :		36	83	9	A1	RSEVFLVVR	27.000
	59	HCV :		36	121	9	A_0201	RLVFLLVFL	270.234
	60	HCV		36	87	9	A_0201	FLVVRTPNL	98.267
	61	HCV		36	56	9	A24	GYPGFPQDL	360.000
	62	HCV		36	121	9	A24	RLVFLLVFL	14.400
	63	HCV		36	69	9	A24	RSLGMGWRL	12.000
	64	HCV		36	118	9	в7	CGRRLVFLL	40.000
	65	HCV		36	12	9	в7	RVSMTLPTL	20.000
	66	HCV		36	117	9	в8	SCGRRLVFL	16.000
	67	HCV		36	42	9	B_3501	HPAQPSPSF	20.000
	68	HCV		36	69	9	B_3501	RSLGMGWRL	10.000
	69	HCV		36	84	9	B_4403	SEVFLVVRT	48.000
	70	HCV		36	79	10	A_0201	RGWDrSEVFL	26.100
	71	HCV	2a	36	114	10	A_0201	NLTScGRRLV	13.910
	.72	HCV	2a	36	86	10	A24	VFLVvRTPNL	30.000
1	.73	HCV	2a	36	8	10	A24	KPHVrVSMTL	11.200
1	.74	HCV	2a	36	51	10	A24	PYRGqGYPGF	10.000
1	.75	HCV	2a	36	70	10	A3	SLGMgWRLPR	24.000
1	.76	HCV	2a	36	89	10	в7	VVRTpNLGPL	200.000
1	.77	HCV	2a	36	8	10	в7	KPHVrVSMTL	80.000
1	.78	HCV	2a	36	77	10	в7	LPRGwDRSEV	60.000
1	L <b>79</b>	HCV	2a	36	19	10	B7	TLRD1CRGSL	60.000
3	180	HCV	2a	36	64	10	в7	LPVErRSLGM	20.000
1	L81	HCV	2a	36	35	10	в7	EPRGdRSHPA	20.000
1	182	HCV	2a	36	35	10	B8	EPRGdRSHPA	32.000
3	183	HCV	2a	36	19	10	B8	TLRD1CRGSL	12.000
1	184	HCV	2a	36	64	10	в_3501	LPVErRSLGM	80.000
	185	HCV	2a	36	8	10	B_3501	KPHVrVSMTL	40.000
	186	HCV		36	6	10	B_3501	SAKPHVRVSM	18.000
	187	HCV		36	77	10	B_3501	LPRGWDRSEV	18.000 12.000
	188	HCV		36	66	10	B_4403	VERRSLGMGW	12.500
	189		2a	37	109	9	A1	YTDPYISKL WMMFPNHEL	262.591
	190		2a	37	147	9	A_0201	RVSSWGVYV	33.472
	191		2a	37	77	9 9	A_0201 A_0201	FLRAEATRV	24.315
	192		2a	37	70 148	9	A_0201	MMFPNHELT	16.588
	193		2a	37 37	36	9	A24	RYRPQTAAL	480.000
	194 195		7 2a 7 2a	37	167	9	A24	RAIGVVGSL	16.800
	196		2a 2a	37	105	9	A3	GLTEYTDPY	54.000
	197		2a 7 2a	37	27	9	A3	SLVFTAQLK	30.000
	198		7 2a	37	45	9	в7	PPREMRDAL	120.000
	199		7 2a	37	147	9	в7	WMMFPNHEL	18.000
	200		7 2a	37	51	9	в7	DALTARARL	18.000
	201		7 2a	37	167	9	в7	RAIGVVGSL	12.000
	202		/ 2a	37	18	9	в7	RASGNGVSL	12.000
	203		/ 2a	37	54	9	в8	TARARLFHA	16.000
		1101	. <u></u> u	3,		-			

204	HCV 2a	37	45	9	B_3501	PPREMRDAL	12.000
205	HCV 2a	37	91	9	B_3501	SSPCNLSIM	10.000
206	HCV 2a	37	73	9	B_4403	AEATRVSSW	144.000
207	HCV 2a	37	129	9	B_4403	MEKKCVIRT	12.000
208	HCV 2a	37	47	9	B_4403	REMRDALTA	12.000
209	HCV 2a	37	157	9	B_4403	GECLTVSQA	12.000
210	HCV 2a	37	109	10	A1	YTDPyISKLR	125.000
211	HCV 2a	37	105	10	A_0201	GLTEYTDPYI	235.260
212	HCV 2a	37	25	10	A_0201	SLSLVFTAQL	81.177
213	HCV 2a	37	147	10	A_0201	WMMFpNHELT	44.885
214	HCV 2a	37	108	10	A24	EYTDpYISKL	264.000
215	HCV 2a	37	27	10	A3	SLVFtAQLKR	12.000
216	HCV 2a	37	62	10	в7	ALRGGAPSFL	120.000
217	HCV 2a	37	44	10	В7	LPPReMRDAL	120.000
218	HCV 2a	37	54	10	в7	TARAYLFHAL	120.000
219	HCV 2a	37	126	10	в7	AIRMeKKCVI	12.000
220	HCV 2a	37	19	10	в7	ASGNgVSLSL	12.000
221	HCV 2a	37	97	10	В7	SIMAgRSRGL	12.000
222	HCV 2a	37	120	10	B7	WSRVsWAIRM	10.000
223	HCV 2a	37	126	10	B8	AIRMeKKCVI	20.000
224	HCV 2a	37	54	10	B8	TARATLFHAL	16.000
225	HCV 2a	37	134	10	B8	VIRTmRTHIV	12.000
226	HCV 2a	37	120	10	B_3501	WSRVsWAIRM	30.000
227	HCV 2a	37	44	10	B_3501	LPPReMRDAL	20.000
228	HCV 2a	37	90	10	B_3501	ASSPCNLSIM	10.000
229	HCV 2a	37	111	10	B_3501	DPYIsKLRSW	10.000
230	HCV 2a	37	100	10	B_4403	AGRSTGLTEY	13.500
231	HCV 2a	38	19	9	A_0201	ALQAARAFT	40.986
232	HCV 2a	38	11	10	в7	IVGAtIPAAL	20.000
233	HCV 2a	39	16	9	A_0201	RLYPQVWPL	1.179.204
234	HCV 2a	39	24	9	A_0201	LLLNIGPPT	46.873
235	HCV 2a	39	20	9	A_0201	QVWPLLLNI	17.427
236	HCV 2a	39	17	9	A24	LYPQVWPLL	420.000
237	HCV 2a	39	16	9	A3	RLYPQVWPL	40.500
238	HCV 2a	39	18	9	в7	YPQVWPLLL	80.000
239	HCV 2a	39	10	9	B_3501	TPLARQRLY	40.000
240	HCV 2a	39	18	9	B_3501	YPQVWPLLL	20.000
241	HCV 2a	39	16	10	A_0201	RLYPqVWPLL	116.211
242	HCV 2a	39	17	10	A24	LYPQvWPLLL	300.000
243	HCV 2a	39	16	10	A24	RLYPqVWPLL	13.440
244	HCV 2a	39	5	10	A3	MLVVsTPLAR	12.000
245	HCV 2a	39	3	10	в7	FPMLvVSTPL	240.000
246	HCV 2a	39	3	10	B_3501		20.000
247	HCV 2a	40	19	9	A_0201		437.482
248	HCV 2a	40	34	9	A24	SYEKPIGSF	150.000
249			13	9	A24	WYMASSVLM	37.500
250	HCV 2a	40	22	9	A3	SLSVTVESK	60.000
251	HCV 2a	40	42	9	A3	FLSAHAFKR	12.000
252	HCV 2a	40	15	9	В7	MASSVLMSL	12.000
253	HCV 2a	40	6	9	B_3501		15.000
254	HCV 2a	40	7	9	B_3501	SGKEQAWYM	12.000
255	HCV 2a	40	51	9	B_3501	NSTRWAGEY	10.000

	4.0	0.17	^	D 4402	VECKUDI ICV	120.000
				_		90.000
						163.232
				_		22.517
				_		420.000
					_	12.000
						15.000
						10.000
				_		10.000
						12.000
						48.151
				<del></del>		21.362
				_		20.000
						18.000
						200.000
						36.000
						18.000
						12.000
						80.000
						15.000
						15.000
						12.000
						120.000
				_		45.000
						87.586
				_		32.044
						28.283
						150.000
						40.000
						18.000
						12.000
						12.000
						15.000
						15.000
						18.000
						257.342
					VLMASCWRA	234.365
						38.280
				В7	SLRPTVRRL	40.000
			9	B_3501	EPGAASPPW	10.000
			9	_ В_3501	ASCWRASPM	10.000
			9	B_4403	WEGGRSSTW	18.000
			10	A_0201	LLGGgVGVFL	199.738
	42	93	10	A_0201	KVLMaSCWRA	42.220
		124	10	A_0201	FLGGgRAQPA	22.853
		78	10	в7	APVErPESPL	360.000
		108	10	в7	SLRPtVRRLL	60.000
		44	10	в7	SPGSpSRGGM	30.000
		112	10	В7	TVRR1LGGGV	10.000
		44	10	B_3501	SPGSpSRGGM	40.000
HCV 2a	42	78	10	B_3501	APVErPESPL	40.000
HCV 2a	42	91	10	B_3501	WPKVlMASCW	30.000
	HCV 2a	HCV 2a         40           HCV 2a         41           HCV 2a         42           HCV 2a         42           HCV 2a         42           HCV 2a<	HCV 2a 40 14 HCV 2a 40 18 HCV 2a 40 34 HCV 2a 40 11 HCV 2a 40 5 HCV 2a 40 6 HCV 2a 40 33 HCV 2a 40 35 HCV 2a 41 22 HCV 2a 41 15 HCV 2a 41 29 HCV 2a 41 53 HCV 2a 41 53 HCV 2a 41 53 HCV 2a 41 60 HCV 2a 41 53 HCV 2a 41 63 HCV 2a 41 53 HCV 2a 41 63 HCV 2a 41 63 HCV 2a 41 62 HCV 2a 41 63 HCV 2a 41 62 HCV 2a 41 63 HCV 2a 41 62 HCV 2a 41 62 HCV 2a 41 63 HCV 2a 41 62 HCV 2a 41 62 HCV 2a 41 33 HCV 2a 41 62 HCV 2a 41 59 HCV 2a 41 11 HCV 2a 42 105 HCV 2a 42 105 HCV 2a 42 106 HCV 2a 42 108 HCV 2a 42 108 HCV 2a 42 116 HCV 2a 42 78 HCV 2a 42 116 HCV 2a 42 112 HCV 2a 42 112 HCV 2a 42 108 HCV 2a 42 116 HCV 2a 42 108 HCV 2a 42 116 HCV 2a 42 108 HCV 2a 42 116 HCV 2a 42 112 HCV 2a 42 112 HCV 2a 42 112 HCV 2a 42 112 HCV 2a 42 108 HCV 2a 42 112	HCV 2a 40 14 10 HCV 2a 40 18 10 HCV 2a 40 34 10 HCV 2a 40 11 10 HCV 2a 40 5 10 HCV 2a 40 6 10 HCV 2a 40 33 10 HCV 2a 40 35 10 HCV 2a 41 22 9 HCV 2a 41 15 9 HCV 2a 41 53 9 HCV 2a 41 60 9 HCV 2a 41 10 HCV 2a 42 100 9 HCV 2a 42 116 10 HCV 2a 42 116 HCV 2a 42 110 HCV 2a 42 HCV 2	HCV 2a         40         26         10         A1           HCV 2a         40         14         10         A_0201           HCV 2a         40         18         10         A_0201           HCV 2a         40         11         10         B7           HCV 2a         40         5         10         B_3501           HCV 2a         40         33         10         B_3501           HCV 2a         40         35         10         B_4403           HCV 2a         41         22         9         A_0201           HCV 2a         41         60         9         A_0201           HCV 2a         41         15         9         A3           HCV 2a         41         29         9         A3           HCV 2a         41         34         9         B7           HCV 2a         41         53         9         B7           HCV 2a         41         53         9         B_3501           HCV 2a         41         53         9         B_3501           HCV 2a         41         53         9         B7           HCV 2a         41 <th>HCV 2a 40 26 10 A1 TVESKHRVSY HCV 2a 40 14 10 A_0201 YMASSVLMSL HCV 2a 40 18 10 A_0201 SVLMSLSVTV HCV 2a 40 11 10 B7 QAWYMASSVL HCV 2a 40 5 10 B_3501 ASSGKEQAWY HCV 2a 40 5 10 B_3501 SSGKEQAWY HCV 2a 40 33 10 B_3501 VSYEKPIGSFL HCV 2a 40 55 10 B_3501 VSYEKPIGSFL HCV 2a 40 55 10 B_3501 VSYEKPIGSFL HCV 2a 40 33 10 B_3501 VSYEKPIGSFL HCV 2a 41 22 9 A_0201 WLTALPDKL HCV 2a 41 15 9 A_0201 ALTLEAASL HCV 2a 41 15 9 A_0201 ALTLEAASL HCV 2a 41 29 9 A3 KLRTSLAPY HCV 2a 41 29 9 A3 KLRTSLAPY HCV 2a 41 26 9 B7 LAPLYPLL HCV 2a 41 34 9 B7 LAPLYPLL HCV 2a 41 53 9 B8 SSKVRSFAL HCV 2a 41 53 9 B8 SSKVRSFAL HCV 2a 41 53 9 B_3501 SSKVRSFAL HCV 2a 41 60 9 B_3501 SSKVRSFAL HCV 2a 41 63 9 B_3501 SSKVRSFAL HCV 2a 41 63 9 B_3501 SIAPLYPLDL HCV 2a 41 63 9 B_3501 SSKVRSFAL HCV 2a 41 63 9 B_3501 SSKVRSFAL HCV 2a 41 63 9 B_3501 SIAPLYPLDL HCV 2a 41 62 10 A1 TLEAASLMSF HCV 2a 41 33 10 A_0201 SIAPLYPLDL HCV 2a 41 30 A_0201 SIAPLYPLDL HCV 2a 41 10 B_3501 SIAPLYPLDL HCV 2a 41 11 0 B_3501 SIAPLYPLDL HCV 2a 41 11 0 B_3501 SIAPLYPLU HCV 2a 42 108 9 B7 SIAPLYPLU HCV 2a 42 108 9 B7 SIAPLYPLU HCV 2a 42 116 10 A_0201 FLIGGGVGV HCV 2a 42 116 10 A_0201 FLIGGGROUP HCV 2a 42 116 10 B_3501 SPGSPSRGM HCV 2a 42 111 10 B7 SPGSPSRGGM HCV 2a 42 108 B7 SIAPLYPRL HCV 2a 42 108 B7 SPGSPSRGGM HCV 2a 42 108 B</th>	HCV 2a 40 26 10 A1 TVESKHRVSY HCV 2a 40 14 10 A_0201 YMASSVLMSL HCV 2a 40 18 10 A_0201 SVLMSLSVTV HCV 2a 40 11 10 B7 QAWYMASSVL HCV 2a 40 5 10 B_3501 ASSGKEQAWY HCV 2a 40 5 10 B_3501 SSGKEQAWY HCV 2a 40 33 10 B_3501 VSYEKPIGSFL HCV 2a 40 55 10 B_3501 VSYEKPIGSFL HCV 2a 40 55 10 B_3501 VSYEKPIGSFL HCV 2a 40 33 10 B_3501 VSYEKPIGSFL HCV 2a 41 22 9 A_0201 WLTALPDKL HCV 2a 41 15 9 A_0201 ALTLEAASL HCV 2a 41 15 9 A_0201 ALTLEAASL HCV 2a 41 29 9 A3 KLRTSLAPY HCV 2a 41 29 9 A3 KLRTSLAPY HCV 2a 41 26 9 B7 LAPLYPLL HCV 2a 41 34 9 B7 LAPLYPLL HCV 2a 41 53 9 B8 SSKVRSFAL HCV 2a 41 53 9 B8 SSKVRSFAL HCV 2a 41 53 9 B_3501 SSKVRSFAL HCV 2a 41 60 9 B_3501 SSKVRSFAL HCV 2a 41 63 9 B_3501 SSKVRSFAL HCV 2a 41 63 9 B_3501 SIAPLYPLDL HCV 2a 41 63 9 B_3501 SSKVRSFAL HCV 2a 41 63 9 B_3501 SSKVRSFAL HCV 2a 41 63 9 B_3501 SIAPLYPLDL HCV 2a 41 62 10 A1 TLEAASLMSF HCV 2a 41 33 10 A_0201 SIAPLYPLDL HCV 2a 41 30 A_0201 SIAPLYPLDL HCV 2a 41 10 B_3501 SIAPLYPLDL HCV 2a 41 11 0 B_3501 SIAPLYPLDL HCV 2a 41 11 0 B_3501 SIAPLYPLU HCV 2a 42 108 9 B7 SIAPLYPLU HCV 2a 42 108 9 B7 SIAPLYPLU HCV 2a 42 116 10 A_0201 FLIGGGVGV HCV 2a 42 116 10 A_0201 FLIGGGROUP HCV 2a 42 116 10 B_3501 SPGSPSRGM HCV 2a 42 111 10 B7 SPGSPSRGGM HCV 2a 42 108 B7 SIAPLYPRL HCV 2a 42 108 B7 SPGSPSRGGM HCV 2a 42 108 B

				4.0	D 4400	CEDG- 3 CEST	54.000
308	HCV 2a	42	20	10	B_4403	SEPGaASPPW	12.000
309	HCV 2a	42	54	10	B_4403	EEVEDVSERA	12.000
310	HCV 2a	43				no hits	
311	HCV 2a	44				no hits	
312	HCV 2a	45	_	_	- 0001	no hits	118.238
313	HCV 2a	46	1	9	A_0201	MLAPQGHRV	33.853
314	HCV 2a	46	10	9	A_0201	VMMPVPAHT	90.000
315	HCV 2a	46	3	9	B7	APQGHRVVM	80.000
316	HCV 2a	46	12	9	B7	MPVPAHTPL	40.000
317	HCV 2a	46	3	9	B_3501	APQGHRVVM	20.000
318	HCV 2a	46	12	9	B_3501	MPVPAHTPL	26.228
319	HCV 2a	46	11	10	A_0201	MMPVpAHTPL	60.000
320	HCV 2a	46	3	10	B7	APQGhRVVMM APQGhRVVMM	40.000
321	HCV 2a	46	3	10	B_3501		407.808
322	HCV 2a	47	25	9	A_0201	QLWSLLSRL SLLSRLVIV	242.674
323	HCV 2a	47	28	9	A_0201 A_0201	IVREPSSWV	17.731
324	HCV 2a	47	35	9 9	A_0201 A3	LLSRLVIVR	24.000
325	HCV 2a	47	29	9	А3 В7	SVIQLWSLL	20.000
326	HCV 2a	47	22	9	в7 В7	IVREPSSWV	15.000
327	HCV 2a	47	35 10	9	B_3501	RSHEPAHGM	40.000
328	HCV 2a	47 47	25	10	A_0201	QLWS1LSRLV	115.456
329	HCV 2a HCV 2a	47	34	10	A_0201	VIVRePSSWV	89.418
330	HCV 2a	47	17	10	A_0201	GMGQsSVIQL	35.485
331 332	HCV 2a	47	24	10	A_0201	IQLWsLLSRL	31.334
333	HCV 2a	47	28	10	A3	SLLSrLVIVR	36.000
334	HCV 2a	47	17	10	A3	GMGQsSVIQL	10.800
335	HCV 2a	47	37	10	в_4403	REPSsWVTRC	18.000
336	HCV 2a	48	109	9	A_0201	RMLRRIVVL	53.831
337	HCV 2a	48	110	9	A_0201	MLRRIVVLV	20.668
338	HCV 2a	48	74	9	A_0201	TLPRPMLPT	17.140
339	HCV 2a	48	19	9	A_0201	RMPAQMTPT	12.379
340	HCV 2a	48	109	9	A24	RMLRRIVVL	12.000
341	HCV 2a	48	114	9	A24	IVVLVDNGL	10.080
342	HCV 2a	48	116	9	A3	VLVDNGLVR	12.000
343	HCV 2a	48	114	9	в7	IVVLVDNGL	20.000
344	HCV 2a	48	75	9	в7	LPRPMLPTA	20.000
345	HCV 2a	48	122	9	в7	LVRAALNAT	20.000
346	HCV 2a	48	103	9	B7	DASQPPRML	18.000
347	HCV 2a	48	67	9	в7	PARISTSTL	12.000
348	HCV 2a	48	37	9	в7	GSRLMTSSM	10.000
349	HCV 2a	48	37	9	B_3501	GSRLMTSSM	30.000
350	HCV 2a	48	58	9	B_3501	RAPEMPAPY	24.000
351	HCV 2a	48	139	9	B_3501	GSVDSPARY	20.000
352	HCV 2a	48	109	10	A_0201	RMLRrIVVLV	427.474
353	HCV 2a	48	116	10	A_0201	VLVDnGLVRA	79.642
354	HCV 2a	48	121	10		GLVRaALNAI	23.995
355	HCV 2a	48	74	10	A_0201	TLPRpMLPTA	11.426
356	HCV 2a	48	113	10		RIVVLVDNGL	20.160
357	HCV 2a	48	80	10		LPTAaPTRPL	120.000
358	HCV 2a	48	66	10		YPARISTSTL	80.000
359	HCV 2a	48	122	10	в7	LVRAaLNAIM	50.000

360	HCV 2a	48	11	10	в7	SPGPtWRRRM	30.000
361	HCV 2a	48	75	10	в7	LPRPmLPTAA	20.000
362	HCV 2a	48	11	10	B_3501	SPGPtWRRRM	40.000
363	HCV 2a	48	66	10	B_3501	YPARiSTSTL	20.000
364	HCV 2a	48	80	10	B_3501	LPTAaPTRPL	20.000
365	HCV 2a	48	43	10	B_3501	SSMEgFSPDM	20.000
366	HCV 2a	48	92	10	в_3501	KPVApAGGAI	16.000
367	HCV 2a	48	70	10	B_3501	ISTStLPRPM	10.000
368	HCV 2a	48	128	10	B_4403	NAIMeATAGF	11.250
369	HCV 2a	49	40	9	A_0201	WILDFSISA	181.139
370	HCV 2a	49	9	9	A_0201	CLAQNCSTL	21.362
371	HCV 2a	49	41	9	A_0201	ILDFSISAI	16.317
372	HCV 2a	49	38	9	A_0201	KPWILDFSI	11.475
373	HCV 2a	49	51	9	в7	CPSSMRAAL	120.000
374	HCV 2a	49	34	9	в7	ACCNKPWIL	12.000
375	HCV 2a	49	24	9	в7	AGCMSWACL	12.000
376	HCV 2a	49	34	9	в8	ACCNKPWIL	16.000
377	HCV 2a	49	51	9	B_3501	CPSSMRAAL	20.000
378	HCV 2a	49	38	9	B_3501	KPWILDFSI	16.000
379	HCV 2a	49	32	9	B_4403	LEACCNKPW	36.000
380	HCV 2a	49	19	9	B_4403	HEASTAGCM	12.000
381	HCV 2a	49	41	10	A1	ILDFSISAIR	10.000
382	HCV 2a	49	40	10	A_0201	WILDESISAI	230.237
383	HCV 2a	49	50	10	A24	RCPSsMRAAL	12.000
384	HCV 2a	49	1	10	в7	MPLMkFHMCL	80.000
385	HCV 2a	49	23	10	в7	TAGCmSWACL	12.000
386	HCV 2a	49	33	10	в7	EACCnKPWIL	12.000
387	HCV 2a	49	33	10	в8	EACCnKPWIL	32.000
388	HCV 2a	49	1	10	B_3501	MPLMkFHMCL	20.000
389	HCV 2a	49	46	10	B_3501	ISAIrCPSSM	10.000
390	HCV 2a	49	19	10	B_4403	HEASTAGCMS	12.000
391	HCV 2a	50	57	9	A1	VTEPKRYRR	450.000
392	HCV 2a	50	6	9	A1	MMETHPVAK	18.000
393	HCV 2a	50	8	9	A1	ETHPVAKQY	12.500
394	HCV 2a	50	39	9	A_0201	CMHVAMYFV	635.435
395	HCV 2a	50	43	9	A_0201	AMYFVTGCV	20.897
396	HCV 2a	50	62	9	A24	RYRRGVGPT	10.000
397	HCV 2a	50	6	9	A3	MMETHPVAK	20.000
398	HCV 2a	50	23	9	в7	TPPARTHVL	80.000
399	HCV 2a	50	66	9	в7	GVGPTRVGL	30.000
400	HCV 2a	50	4	9	в7	RPMMETHPV	12.000
401	HCV 2a	50	74	9	в7	LSRVRHFHM	10.000
402	HCV 2a	50	74	9	В8	LSRVRHFHM	20.000
403	HCV 2a	50	23	9	В8	TPPARTHVL	16.000
404	HCV 2a	50	74	9	B_3501	LSRVRHFHM	30.000
405	HCV 2a	50	36	9	B_3501	RSACMHVAM	20.000
406	HCV 2a	50	23	9	B_3501	TPPARTHVL	20.000
407	HCV 2a	50	59	9	B_3501	EPKRYRRGV	12.000
408	HCV 2a	50	4	9	B_3501	RPMMETHPV	12.000
409	HCV 2a	50	83	9	B_3501	TSQDGGGAL	10.000
410	HCV 2a	50	8	9	B_4403	ETHPVAKQY	20.250
411	HCV 2a	50	37	9	B_4403	SACMHVAMY	18.000

412	HCV 2a	50	57	10	A1	VTEPKRYRRG	22.500
413	HCV 2a	50	73	10	A_0201	GLSRvRHFHM	28.814
414	HCV 2a	50	38	10	A_0201	ACMHVAMYFV	21.250
415	HCV 2a	50	39	10	A_0201	CMHVaMYFVT	19.198
416	HCV 2a	50	22	10	A24	KTPPaRTHVL	14.400
417	HCV 2a	50	65	10	A24	RGVGpTRVGL	12.000
418	HCV 2a	50	43	10	A3	AMYFVTGCVK	100.000
419	HCV 2a	50	31	10	в7	LVMTsRSACM	15.000
420	HCV 2a	50	36	10	B_3501	RSACMHVAMY	20.000
421	HCV 2a	50	54	10	B_3501	TSLVtEPKRY	15.000
422	HCV 2a	50	7	10	B_4403	YQXAVqHT3M	405.000
423	HCV 2a	50	36	10	B_4403	RSACmHVAMY	18.000
424	HCV 2a	51	30	9	A_0201	SLTVVSAGV	69.552
425	HCV 2a	51	28	9	A_0201	ALSLTVVSA	11.426
426	HCV 2a	51	26	9	A24	KYALSLTVV	10.000
427	HCV 2a	51	21	9	в7	KPGVLKYAL	80.000
428	HCV 2a	51	23	9	в7	GVLKYALSL	20.000
429	HCV 2a	51	21	9	B_3501	KPGVLKYAL	40.000
430	HCV 2a	51	19	9	B_4403	TGKPGVLKY	27.000
431	HCV 2a	51	15	10	A_0201	WSWHtGKPGV	17.334
432	HCV 2a	51	26	10	A24	KYALsLTVVS	12.000
433	HCV 2a	51	18	10	B_4403	HTGKpGVLKY	13.500
434	HCV 2a	52				no hits	
435	HCV 2a	53	14	9	A_0201	FEWQKIKCL	36.476
436	HCV 2a	53	18	9	B_3501	KIKCLPPLM	12.000
437	HCV 2a	53	13	10	A24	FFEWqKIKCL	30.000
438	HCV 2a	54	1	9	в7	MPRMVVAST	20.000
439	HCV 2a	54	1	10	в7	MPRMvVASTA	20.000
440	HCV 2a	54	7	10	B_3501	ASTAWHSSHM	10.000
441	HCV 2a	55	16	9	A1	GLMPCALDK	10.000
442	HCV 2a	55	52	9	A_0201	TLVLFPLPV	264.298
443	HCV 2a	55	41	9	A_0201	TLYPWAAYA	87.437
444	HCV 2a	55	12	9	A_0201	VLMLGLMPC	71.872
445	HCV 2a	55	13	9	A_0201	LMLGLMPCA	51.908
446	HCV 2a	55	14	9	A_0201	MLGLMPCAL	36.316
447	HCV 2a	55	54	9	A_0201	VLFPLPVGA	31.249
448	HCV 2a	55	7	9	A_0201	TVLTPVLML	15.907
449	HCV 2a	55	47	9	A24	AYATGTLVL	200.000
450	HCV 2a	55	24	9	A24	KYAPNPRVA	12.000
451	HCV 2a	55	16	9	A3	GLMPCALDK	270.000
452	HCV 2a	55	7	9	в7	TVLTPVLML	30.000
453	HCV 2a	55	5	9	в7	VVTVLTPVL	20.000
454	HCV 2a	55	10	9	в7	TPVLMLGLM	20.000
455	HCV 2a	55	45	9	в7	WAAYATGTL	12.000
456	HCV 2a	55	1	9	в7	MAAPVVTVL	12.000
457	HCV 2a	55	10	9	B_3501	TPVLMLGLM	40.000
458	HCV 2a	55	40	9	B_4403	STLYPWAAY	12.000
459	HCV 2a	55	13	10		LMLGLMPCAL	97.045
460	HCV 2a	55	8	10		VLTPVLMLGL	83.527
461	HCV 2a	55	12	10	A_0201	VLMLgLMPCA	71.872
462	HCV 2a	55	17	10	A_0201	LMPCaLDKYA	33.548
463	HCV 2a	55	41	10	A_0201	TLYPWAAYAT	23.846

464 NCV 2a 55 51 10								
466 NCV 2a 55 24 10 A24 KYAPHPRVAA 12.000 467 NCV 2a 55 16 10 A3 GIMPCALINKY 40.500 468 NCV 2a 55 28 10 B7 NPRVAATEGL 800.000 470 NCV 2a 55 3 10 B7 APVVEVLPFV 12.000 471 NCV 2a 55 3 10 B7 APVVEVLPFV 12.000 471 NCV 2a 55 49 10 B7 APVVEVLPFV 12.000 472 NCV 2a 55 5 49 10 B7 APVVEVLPFV 12.000 473 NCV 2a 55 56 10 B7 NPRVAATEGL 16.000 474 NCV 2a 55 56 10 B,3501 NPRVAATEGL 16.000 475 NCV 2a 55 56 10 B,3501 NPRVAATEGL 16.000 476 NCV 2a 55 56 10 B,3501 NPRVAATEGL 16.000 477 NCV 2a 55 56 10 B,3501 NPRVAATEGL 16.000 477 NCV 2a 55 56 10 B,3501 NPRVAATEGL 16.000 478 NCV 2a 55 56 10 B,3501 NPRVAATEGL 16.000 479 NCV 2a 55 56 10 B,4403 TEGLETSTLY 180.000 479 NCV 2a 55 56 10 B,4403 TEGLETSTLY 180.000 479 NCV 2a 56 6 6 9 A,0201 GPPEDPERV 10.797 479 NCV 2a 56 6 79 9 A3 GLGESNAPR 18.000 480 NCV 2a 56 108 9 B7 GPREPANU 1.200.000 481 NCV 2a 56 108 9 B7 GPREPANU 1.200.000 482 NCV 2a 56 57 9 B7 NAPRLSERL 80.000 483 NCV 2a 56 57 9 B7 NAPRLSERL 80.000 484 NCV 2a 56 50 108 9 B7 GPREPANU 1.200.000 485 NCV 2a 56 108 9 B7 GPREPANU 1.200.000 486 NCV 2a 56 50 108 9 B7 GPREPANU 1.200.000 487 NCV 2a 56 108 9 B7 GPREPANU 1.200.000 488 NCV 2a 56 57 9 B7 NAPRLSERL 12.000 489 NCV 2a 56 108 9 B,3501 GPREPANU 1.200.000 489 NCV 2a 56 108 9 B,3501 GPREPANU 1.200.000 490 NCV 2a 56 6 9 B,3501 GPREPANU 1.200.000 491 NCV 2a 56 6 65 9 B,3501 GPREPANU 1.200.000 492 NCV 2a 56 6 65 9 B,3501 GPREPANU 1.200.000 493 NCV 2a 56 6 77 9 B, 3401 TEARFVTRY 10.000 494 NCV 2a 56 6 79 B,3501 GPREPANU 1.200.000 495 NCV 2a 56 6 70 10 B,3501 GPREPANU 1.200.000 496 NCV 2a 56 6 70 B,3501 GPREPANU 1.200.000 497 NCV 2a 56 6 70 B,3501 GPREPANU 1.200.000 498 NCV 2a 56 6 70 B,3501 GPREPANU 1.200.000 499 NCV 2a 56 6 70 B,3501 GPREPANU 1.200.000 499 NCV 2a 56 6 70 B,3501 GPREPANU 1.200.000 499 NCV 2a 56 6 70 B,3501 GPREPANU 1.200.000 499 NCV 2a 56 6 70 B,3501 GPREPANU 1.200.000 499 NCV 2a 56 6 70 B,3501 GPREPANU 1.200.000 500 NCV 2a 56 6 70 B,3501 GPREPANU 1.200.000 500 NCV 2a 56 6 70 B,3501 GPREPANU 1.200.000 500 NCV 2a 56 70 B B,3501 GPREPANU 1.200.000 500 NCV 2a 56 70 B B,3501 GPR	464	HCV 2a	55	51	10	A_0201	GTLVLFPLPV	13.582
467 HCV 2a 55 16 10 A3 GIMPCALDRY 40.500 468 HCV 2a 55 28 10 B7 NPRVAATSCL 800.000 470 HCV 2a 55 3 10 B7 APVLVLTFV 12.000 471 HCV 2a 55 3 10 B7 APVLVLTFV 12.000 471 HCV 2a 55 28 10 B8 NPRVAATSCL 60.000 473 HCV 2a 55 28 10 B8 NPRVAATSCL 16.000 473 HCV 2a 55 28 10 B_3501 NPRVAATSCL 60.000 474 HCV 2a 55 39 10 B_3501 NPRVAATSCL 60.000 475 HCV 2a 55 39 10 B_3501 NPRVAATSCL 60.000 476 HCV 2a 55 39 10 B_3501 NPRVAATSCL 60.000 477 HCV 2a 55 6 10 B_3501 PFILPVCACKY 40.000 477 HCV 2a 55 6 10 B_4403 TEGLETSTLY 180.000 477 HCV 2a 55 6 10 B_4403 TEGLETSTLY 180.000 477 HCV 2a 56 6 10 B_4501 PFILPVCACKY 27.000 478 HCV 2a 56 36 99 A_0201 GPPEDPFW 10.797 479 HCV 2a 56 56 10 B_5501 NPRVAATSCL 60.000 480 HCV 2a 56 56 10 B_4603 TEGLETSTLY 180.000 481 HCV 2a 56 56 93 9 B7 GPREPANYL 1.200.000 482 HCV 2a 56 57 9 B7 OPFKVERGL 80.000 483 HCV 2a 56 57 9 B7 SPRLAKAGNT 20.000 484 HCV 2a 56 57 9 B7 NARRISPEL 12.000 485 HCV 2a 56 108 9 B8 GFREPANYL 24.000 486 HCV 2a 56 57 9 B B7 NARRISPEL 12.000 487 HCV 2a 56 108 9 B B7 GPREPANYL 12.0000 489 HCV 2a 56 6 9 B B SPRLAKAGNT 10.000 489 HCV 2a 56 57 9 B B SPRLAKAGNT 10.000 489 HCV 2a 56 6 59 B B SPRLAKAGNT 10.000 490 HCV 2a 56 57 9 B B SPRLAKAGNT 10.000 491 HCV 2a 56 6 65 9 B_3501 GPREPARYL 12.0000 492 HCV 2a 56 6 65 9 B_3501 GPREPARYL 10.000 493 HCV 2a 56 6 65 9 B_3501 GPREPARYL 10.000 494 HCV 2a 56 6 65 9 B_3501 GPREPARYL 10.000 495 HCV 2a 56 6 65 9 B_3501 GPREPARYL 10.000 496 HCV 2a 56 6 65 9 B_3501 GPREPARYL 10.000 497 HCV 2a 56 6 65 9 B_3501 GPREPARYL 10.000 498 HCV 2a 56 6 65 9 B_3501 GPREPARYL 10.000 499 HCV 2a 56 6 65 9 B_3501 GPREPARYL 10.000 490 HCV 2a 56 6 65 9 B_3501 GPREPARYL 10.000 491 HCV 2a 56 6 65 9 B_3501 GPREPARYL 10.000 492 HCV 2a 56 6 67 9 B_4403 TSAFRVTHY 10.000 493 HCV 2a 56 6 67 9 B_3501 GPREPARYL 10.000 494 HCV 2a 56 6 67 10 B G GREPARYL 10.000 495 HCV 2a 56 6 67 9 B_3501 GPREPARYL 10.000 496 HCV 2a 56 6 67 9 B_4403 TSAFRVTHY 10.000 497 HCV 2a 56 6 67 9 B_4403 TSAFRVTHY 10.000 498 HCV 2a 56 6 67 9 B_3501 GPREPARYL 10.000 499 HCV 2a 56 6 67 9 B_3501 GPREPARYL 10.000 499 HC	465	HCV 2a	55	47	10	A24	AYATgTLVLF	100.000
466 HCV 2a 55 28 10 B7 NPRVANTEGL 800.000 469 HCV 2a 55 46 10 B7 ANYACTEVITY 36.000 470 HCV 2a 55 49 10 B7 AVGTIVITY 12.000 471 HCV 2a 55 49 10 B8 NPRVANTEGL 16.000 472 HCV 2a 55 28 10 B. NPRVANTEGL 16.000 473 HCV 2a 55 56 10 B.3501 NPRVANTEGL 60.000 474 HCV 2a 55 56 10 B.3501 PFLPVGACKY 40.000 475 HCV 2a 55 34 10 B.3501 FFLPVGACKY 40.000 476 HCV 2a 55 34 10 B.403 FFLPVGACKY 10.000 477 HCV 2a 55 34 10 B.403 FFLPVGACKY 27.000 478 HCV 2a 55 34 10 B.403 FFLPVGACKY 27.000 479 HCV 2a 55 36 10 B.3501 FFLPVGACKY 27.000 478 HCV 2a 56 56 10 B.403 FFLPVGACKY 27.000 480 HCV 2a 56 40 9 B7 GPREPANV 1.0.797 480 HCV 2a 56 40 9 B7 GPREPANV 1.0.000 481 HCV 2a 56 57 9 B7 SPRIRAGMT 20.000 483 HCV 2a 56 57 9 B7 SPRIRAGMT 20.000 484 HCV 2a 56 57 9 B7 SPRIRAGMT 20.000 485 HCV 2a 56 57 9 B8 GPREPANV 1.0.000 486 HCV 2a 56 57 9 B8 SPRIRAGMT 16.000 487 HCV 2a 56 57 9 B8 SPRIRAGMT 16.000 488 HCV 2a 56 57 9 B8 SPRIRAGMT 16.000 489 HCV 2a 56 57 9 B B SPRIRAGMT 16.000 489 HCV 2a 56 57 9 B B SPRIRAGMT 16.000 489 HCV 2a 56 57 9 B B SPRIRAGMT 16.000 489 HCV 2a 56 57 9 B B SPRIRAGMT 16.000 489 HCV 2a 56 57 9 B B SPRIRAGMT 16.000 489 HCV 2a 56 57 9 B B SPRIRAGMT 16.000 489 HCV 2a 56 57 9 B B SPRIRAGMT 16.000 489 HCV 2a 56 57 9 B B SPRIRAGMT 16.000 489 HCV 2a 56 6 65 9 B.3501 GPREPARVL 120.000 491 HCV 2a 56 65 9 B.3501 GPREPARVL 120.000 492 HCV 2a 56 66 65 9 B.3501 GPREPARVL 120.000 493 HCV 2a 56 65 9 B.3501 GPREPARVL 120.000 494 HCV 2a 56 67 9 B.403 TSAFRVTRY 10.000 495 HCV 2a 56 65 9 B.3501 GPREPARVL 13.500 496 HCV 2a 56 67 10 B.3501 GPREPARVL 13.500 501 HCV 2a 56 67 10 B.3501 GPREPARVL 13.500 502 HCV 2a 56 60 10 B 10 B B GPREPARVL 14.000 503 HCV 2a 56 67 10 B B.3501 GPREPARVL 14.000 504 HCV 2a 56 67 10 B B.3501 GPREPARVL 14.000 505 HCV 2a 56 67 10 B B.3501 GPREPARVL 14.000 506 HCV 2a 56 67 10 B B.3501 GPREPARVL 14.000 507 HCV 2a 56 67 10 B B.3501 GPREPARVL 14.000 508 HCV 2a 56 77 10 B B GPREPARVL 14.000 509 HCV 2a 56 67 10 B B.3501 GPREPARVL 14.000 500 HCV 2a 56 67 10 B B.3501 GPREPARVL 14.000 501 HCV 2a 56 67 10 B B.3501 GPREPARVL 14.000 502	466	HCV 2a	55	24	10	A24	KYAPnPRVAA	12.000
468 HCV 2a 55 46 10 B7 AAYALGTUVL 36.000 470 HCV 2a 55 3 10 B7 APVUVLTFV 12.000 471 HCV 2a 55 49 10 B7 APVUVLTFV 12.000 471 HCV 2a 55 2B 10 B8 NPRVAATEGL 16.000 473 HCV 2a 55 2B 10 B_3501 NPRVAATEGL 60.000 474 HCV 2a 55 56 10 B_3501 TSTLYPWAAY 10.000 475 HCV 2a 55 39 10 B_3501 TSTLYPWAAY 10.000 476 HCV 2a 55 39 10 B_3501 TSTLYPWAAY 10.000 477 HCV 2a 55 56 10 B_403 TECLETETLY 180.000 477 HCV 2a 55 56 10 B_403 TECLETETLY 180.000 478 HCV 2a 56 36 9 A_0201 GPFEDPFKV 10.797 479 HCV 2a 56 36 99 B_3001 GLGSSNAPR 18.000 481 HCV 2a 56 36 99 B7 GPFEDPFKV 10.797 483 HCV 2a 56 57 9 B7 GPFEDPFKV 1.200.000 484 HCV 2a 56 57 9 B7 GPFEDPFKV 1.200.000 485 HCV 2a 56 57 9 B7 GPFEDPFKV 1.200.000 486 HCV 2a 56 57 9 B7 GPFEDPFKV 1.200.000 487 HCV 2a 56 57 9 B7 GPFEDPFKV 1.200.000 488 HCV 2a 56 57 9 B7 GPFEDPFKV 1.200.000 489 HCV 2a 56 57 9 B7 NAFRLSPRL 20.000 489 HCV 2a 56 57 9 B7 SPFLANAGET 20.000 489 HCV 2a 56 57 9 B8 GPFEDPAWL 24.000 489 HCV 2a 56 108 9 B_3501 GPFEDPFKV 12.000 489 HCV 2a 56 108 9 B_3501 GPFEDPFKV 10.000 490 HCV 2a 56 36 99 B_3501 GPFEDPFKV 10.000 491 HCV 2a 56 66 69 9 B_3501 GPFEDPFKV 10.000 492 HCV 2a 56 66 99 B_3501 GPFEDPFKV 10.000 493 HCV 2a 56 66 99 B_3501 GPFEDPFKV 10.000 494 HCV 2a 56 66 99 B_3501 GPFEDPFKV 10.000 495 HCV 2a 56 66 99 B_3501 GPFEDPFKV 10.000 496 HCV 2a 56 66 99 B_3501 GPFEDPFKV 10.000 497 HCV 2a 56 66 69 P_3501 TSAFKUTKY 10.000 498 HCV 2a 56 66 69 P_3501 TSAFKUTKY 10.000 499 HCV 2a 56 66 69 P_3501 TSAFKUTKY 10.000 490 HCV 2a 56 66 69 P_3501 TSAFKUTKY 10.000 491 HCV 2a 56 66 69 P_3501 TSAFKUTKY 10.000 492 HCV 2a 56 60 108 10 B_3501 GPFEDPFKV 10.000 493 HCV 2a 56 60 108 10 B_3501 GPFEDPFK 10.000 500 HCV 2a 56 60 108 10 B_3501 GPFEDPFK 10.000 501 HCV 2a 56 60 108 10 B_3501 GPFEDPFK 10.000 502 HCV 2a 56 60 108 10 B_3501 GPFEDPFK 10.000 503 HCV 2a 56 60 108 10 B_3501 GPFEDPFK 10.000 504 HCV 2a 56 77 10 B_3501 SPAFKUTKY 10.000 505 HCV 2a 56 60 108 10 B_3501 GPFEDPFK 10.000 506 HCV 2a 56 60 108 10 B_3501 GPFEDPFK 10.000 507 HCV 2a 56 60 108 10 B_3501 GPFEDPFK 10.000 508 HCV 2a 56 60 108 10 B_3501 G	467	HCV 2a	55	16	10	A3	GLMPcALDKY	40.500
470 HCV 2a 55 3 10 B7 APVVEVITEV 12.000 471 HCV 2a 55 49 10 B7 APVVEVITEV 12.000 472 HCV 2a 55 28 10 B8 NERVAATEGL 16.000 473 HCV 2a 55 28 10 B_3501 NERVAATEGL 60.000 474 HCV 2a 55 5 6 10 B_3501 FPLPVGACKY 40.000 475 HCV 2a 55 34 10 B_4501 FPLPVGACKY 10.000 476 HCV 2a 55 34 10 B_4403 TEGLETSTLY 180.000 477 HCV 2a 55 56 10 B_4403 TEGLETSTLY 180.000 478 HCV 2a 56 47 9 A3 GLGESNAPR 18.000 479 HCV 2a 56 40 9 B7 GPREPARVL 1.000.000 480 HCV 2a 56 57 9 B7 DPFKVERGL 80.000 481 HCV 2a 56 57 9 B7 DPFKVERGL 80.000 483 HCV 2a 56 57 9 B7 NAPKLISPRI 12.000 484 HCV 2a 56 50 108 9 B8 SPRLRAGMT 20.000 485 HCV 2a 56 108 9 B_3501 DPFKVERGL 80.000 486 HCV 2a 56 50 108 9 B7 DPFKVERGL 80.000 487 HCV 2a 56 50 108 9 B7 DPFKVERGL 80.000 488 HCV 2a 56 50 108 9 B8 SPRLRAGMT 10.000 489 HCV 2a 56 50 108 9 B,3501 DPFKVERGL 80.000 480 HCV 2a 56 50 108 9 B,3501 DPFKVERGL 80.000 481 HCV 2a 56 50 108 9 B,3501 DPFKVERGL 80.000 482 HCV 2a 56 108 9 B,3501 DPFKVERGL 80.000 483 HCV 2a 56 50 108 9 B,3501 DPFKVERGL 20.000 484 HCV 2a 56 50 108 9 B,3501 DPFKVERGL 20.000 485 HCV 2a 56 108 9 B,3501 DPFKVERGL 20.000 486 HCV 2a 56 50 9 B,3501 DPFKVERGL 20.000 487 HCV 2a 56 50 9 B,3501 DPFKVERGL 20.000 490 HCV 2a 56 56 6 9 B,3501 DPFKVERGL 20.000 491 HCV 2a 56 6 50 9 B,3501 DPFKVERGL 20.000 492 HCV 2a 56 6 50 9 B,3501 DPFKVERGL 20.000 493 HCV 2a 56 6 50 9 B,3501 DPFKVERGL 20.000 494 HCV 2a 56 6 50 9 B,3501 DPFKVERGL 20.000 495 HCV 2a 56 6 56 9 B,3501 DPFKVERGL 20.000 496 HCV 2a 56 6 50 9 B,3501 DPFKVERGL 20.000 497 HCV 2a 56 6 50 9 B,3501 DPFKVERGL 20.000 498 HCV 2a 56 6 65 9 B,3501 DPFKVERGL 20.000 499 HCV 2a 56 6 65 9 B,3501 DPFKVERGL 20.000 490 HCV 2a 56 6 60 9 B,3501 DPFKVERGL 20.000 491 HCV 2a 56 6 60 9 B,3501 DPFKVERGL 20.000 492 HCV 2a 56 6 60 9 B,3501 DPFKVERGL 20.000 493 HCV 2a 56 6 60 9 B,3501 DPFKVERGL 20.000 494 HCV 2a 56 6 60 9 B,3501 DPFKVERGL 20.000 495 HCV 2a 56 6 60 9 B,3501 DPFKVERGL 20.000 496 HCV 2a 56 6 60 9 B,3501 DPFKVERGL 20.000 497 HCV 2a 56 6 60 9 B,3501 DPFKVERGL 20.000 498 HCV 2a 56 6 60 9 B,3501 DPFKVERGL 20.000 499 HCV 2a 56 6 6	468	HCV 2a	55	28	10	в7	NPRVaATEGL	800.000
471 HCV 2a 55 49 10 B7 ATGTIVEFL 12.000 472 HCV 2a 55 28 10 B8 NFRVAATEGL 16.000 473 HCV 2a 55 28 10 B.3501 NFRVAATEGL 60.000 474 HCV 2a 55 56 10 B.3501 TSTIVEWAXY 10.000 475 HCV 2a 55 39 10 B.3501 TSTIVEWAXY 10.000 476 HCV 2a 55 34 10 B.4403 TEGLETSTLY 180.000 477 HCV 2a 55 56 10 B.403 FPLPVGACKY 27.000 478 HCV 2a 56 36 9 A.0201 GPFEDFKV 10.797 479 HCV 2a 56 108 9 B7 GPREPARVL 1.200.000 481 HCV 2a 56 93 9 B7 HPTKSPSAL 80.000 482 HCV 2a 56 55 56 108 9 B7 GPREPARVL 1.200.000 483 HCV 2a 56 57 9 B7 SFRLAGMT 20.000 484 HCV 2a 56 55 57 9 B8 GPREPARVL 24.000 485 HCV 2a 56 57 9 B8 GPREPARVL 24.000 486 HCV 2a 56 50 108 9 B8 GPREPARVL 24.000 486 HCV 2a 56 50 9 B9 B8 GPREPARVL 24.000 487 HCV 2a 56 50 9 B9 B8 GPREPARVL 24.000 488 HCV 2a 56 50 108 9 B8 GPREPARVL 24.000 489 HCV 2a 56 50 9 B9 B8 GPREPARVL 24.000 490 HCV 2a 56 50 9 B.3501 DPFKVERGL 20.000 491 HCV 2a 56 6 57 9 B BS SFRLRAGMT 10.000 491 HCV 2a 56 6 59 B.3501 DPFKVERGL 20.000 492 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 493 HCV 2a 56 6 59 B.3501 DPFKVERGL 20.000 494 HCV 2a 56 6 59 B.3501 DPFKVERGL 20.000 495 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 496 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 497 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 498 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 499 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 491 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 492 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 493 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 494 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 495 HCV 2a 56 6 67 9 B.3501 DPFKVERGL 20.000 496 HCV 2a 56 66 9 B.3501 DPFKVERGL 20.000 497 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 498 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 499 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 499 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 490 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 491 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 492 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 493 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 494 HCV 2a 56 6 65 9 B.3501 DPFKVERGL 20.000 495 HCV 2a 56 6 60 NG ANDER 20.000 496 HCV 2a 56 6 60 NG ANDER 20.000 497 HCV	469	HCV 2a	55	46	10	в7	AAYAtGTLVL	36.000
471 HCV 28 55 28 10 B8 NPEVAATEGL 16.000 473 HCV 2a 55 58 10 B_3501 NPEVAATEGL 60.000 474 HCV 2a 55 56 10 B_3501 PPLPVGACKY 40.000 475 HCV 2a 55 39 10 B_3501 TSTNPPMAY 10.000 476 HCV 2a 55 36 10 B_4403 TSGLETSTLY 180.000 477 HCV 2a 55 56 10 B_4403 TSGLETSTLY 180.000 478 HCV 2a 56 36 9 A_0201 GPPEDPFKV 10.797 479 HCV 2a 56 36 9 A_0201 GPPEDPFKV 10.797 479 HCV 2a 56 60 89 B7 GPREPARVL 1.200.000 481 HCV 2a 56 57 9 B7 GPREPARVL 1.200.000 482 HCV 2a 56 57 9 B7 GPREPARVL 20.000 483 HCV 2a 56 57 9 B7 GPREPARVL 20.000 484 HCV 2a 56 57 9 B8 GPREPARVL 20.000 485 HCV 2a 56 108 9 B8 GPREPARVL 24.000 486 HCV 2a 56 108 9 B8 GPREPARVL 24.000 487 HCV 2a 56 108 9 B8 GPREPARVL 24.000 488 HCV 2a 56 57 9 B8 GPREPARVL 24.000 489 HCV 2a 56 50 9 B_3501 GPREPARVL 20.000 490 HCV 2a 56 60 9 B_3501 GPREPARVL 10.000 491 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 491 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 491 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 493 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 494 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 495 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 496 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 497 HCV 2a 56 67 9 B_3501 HPTKSPSAL 20.000 498 HCV 2a 56 67 9 B_3501 HPTKSPSAL 20.000 499 HCV 2a 56 67 9 B_3501 HPTKSPSAL 20.000 490 HCV 2a 56 67 9 B_3501 HPTKSPSAL 20.000 491 HCV 2a 56 67 9 B_3501 HPTKSPSAL 20.000 492 HCV 2a 56 67 9 B_3501 HPTKSPSAL 20.000 493 HCV 2a 56 67 9 B_3501 HPTKSPSAL 20.000 494 HCV 2a 56 67 9 B_3501 HPTKSPSAL 20.000 495 HCV 2a 56 67 9 B_3501 HPTKSPSAL 20.000 496 HCV 2a 56 67 9 B_3501 HPTKSPSAL 20.000 497 HCV 2a 56 67 9 B_403 HPTKSPSAL 20.000 498 HCV 2a 56 67 9 B_3501 HPTKSPSAL 20.000 499 HCV 2a 56 67 9 B_403 HPTKSPSAL 20.000 490 HCV 2a 56 67 9 B_403 HPTKSPSAL 20.000 490 HCV 2a 56 67 9 B_403 HPTKSPSAL 20.000 490 HCV 2a 56 67 9 B_403 HPTKSPSAL 20.000 490 HCV 2a 56 67 9 B_403 HPTKSPSAL 20.000 490 HCV 2a 56 67 9 B_403 HPTKSPSAL 20.000 490 HCV 2a 56 67 9 B_403 HPTKSPSAL 20.000 490 HCV 2a 56 67 9 B_403 HPTKSPSAL 20.000 490 HCV 2a 56 67 9 B_403 HPTKSPSAL 20.000 490 HCV 2a 56 67 9 B_403 HPTKSPSAL 20.000 490 HCV 2a	470	HCV 2a	55	3	10	в7	APVVtVLTPV	12.000
473 HCV 2a 55 28 10 B_3501 NPRVBAYEGL 60.000 474 HCV 2a 55 39 10 B_3501 PPLPVBACKY 40.000 475 HCV 2a 55 39 10 B_3501 PPLPVBACKY 10.000 476 HCV 2a 55 39 10 B_3501 PPLPVBACKY 27.000 477 HCV 2a 55 34 10 B_4403 PPLPVBACKY 27.000 478 HCV 2a 56 36 36 9 A_0201 GPPEDPFKV 10.797 479 HCV 2a 56 47 9 A3 GLGESNAPR 18.000 480 HCV 2a 56 108 9 B7 GPREPARVL 1.200.000 481 HCV 2a 56 40 9 B7 DPFKVERGL 80.000 482 HCV 2a 56 57 9 B7 SPALRAGHT 20.000 483 HCV 2a 56 57 9 B7 SPALRAGHT 20.000 484 HCV 2a 56 50 59 B B6 GPREPARVL 12.000 485 HCV 2a 56 50 59 B B7 SPALRAGHT 20.000 486 HCV 2a 56 56 50 9 B_3501 GPREPARVL 12.000 487 HCV 2a 56 50 59 B B SPALRAGHT 16.000 489 HCV 2a 56 50 59 B_3501 HEYERSPAL 20.000 489 HCV 2a 56 50 9 B_3501 GPREPARVL 120.000 490 HCV 2a 56 50 9 B_3501 HEYERSPAL 20.000 491 HCV 2a 56 56 9 B_3501 HEYERSPAL 20.000 491 HCV 2a 56 56 9 B_3501 HEYERSPAL 20.000 491 HCV 2a 56 65 9 B_3501 HEYERSPAL 20.000 492 HCV 2a 56 65 9 B_3501 HEYERSPAL 20.000 493 HCV 2a 56 65 9 B_3501 HEYERSPAL 20.000 494 HCV 2a 56 65 9 B_3501 HEYERSPAL 20.000 495 HCV 2a 56 65 9 B_3501 HEYERSPAL 20.000 496 HCV 2a 56 65 9 B_3501 HEYERSPAL 10.000 497 HCV 2a 56 65 9 B_3501 HEYERSPAL 10.000 498 HCV 2a 56 65 9 B_3501 HEYERSPAL 10.000 499 HCV 2a 56 65 9 B_3501 HEYERSPAL 10.000 490 HCV 2a 56 65 9 B_403 HEYERSPAL 10.000 491 HCV 2a 56 65 9 B_3501 HEYERSPAL 10.000 492 HCV 2a 56 65 9 B_403 HEYERSPAL 10.000 493 HCV 2a 56 67 10 A0.201 GEBSNAPEL 87.586 497 HCV 2a 56 63 10 B 10 B7 GEREPARVL 1.200.000 498 HCV 2a 56 63 10 B 10 B7 GEREPARVL 1.200.000 499 HCV 2a 56 63 10 B 10 B7 GEREPARVL 1.200.000 499 HCV 2a 56 64 10 B_403 HEYERSPAL 1.200.000 490 HCV 2a 56 64 10 B_403 HEYERSPAL 1.200.000 491 HCV 2a 56 63 10 B 10 B7 GEREPARVL 1.200.000 492 HCV 2a 56 63 10 B 10 B7 GEREPARVL 1.200.000 493 HCV 2a 56 63 10 B 10 B7 GEREPARVL 1.200.000 494 HCV 2a 56 67 10 B_3501 GEREPARVL 1.200.000 495 HCV 2a 56 64 10 B_3501 GEREPARVL 1.200.000 496 HCV 2a 56 77 10 B_3501 HCV 26 50 64 10 B_3501 GEREPARVL 1.200.000 506 HCV 2a 56 57 3 1 9 B_4001 WTVPARWL 1.201.000 507 HCV 2a 56 64 10 B_3501 GEREPARVL	471	HCV 2a	55	49	10	в7	ATGT1VLFPL	12.000
474 HCV 2a 55 56 10 B_3501 FPLPVGACKY 40.000 475 HCV 2a 55 39 10 B_3501 TSTLPWARAY 10.000 476 HCV 2a 55 34 10 B_4403 TEGLETSTLY 180.000 477 HCV 2a 55 56 10 B_4403 FPLPVGACKY 27.000 478 HCV 2a 56 36 9 A_0201 GPPEDPFKV 10.797 479 HCV 2a 56 108 9 B7 GPREPARVL 1.200.000 481 HCV 2a 56 093 9 B7 HPTKSFSAL 80.000 482 HCV 2a 56 40 9 B7 DPFKVERGL 80.000 483 HCV 2a 56 57 9 B7 SPALRAGMT 20.000 484 HCV 2a 56 59 B B8 GPREPARVL 12.000 485 HCV 2a 56 50 9 B8 GPREPARVL 12.000 486 HCV 2a 56 57 9 B8 GPREPARVL 12.000 486 HCV 2a 56 50 9 B B8 GPREPARVL 12.000 487 HCV 2a 56 50 9 B B8 GPREPARVL 12.000 488 HCV 2a 56 57 9 B8 SPALRAGMT 10.000 489 HCV 2a 56 50 9 B_3501 GPREPARVL 12.000 489 HCV 2a 56 50 9 B_3501 HPTKSPSAL 20.000 490 HCV 2a 56 69 9 B_3501 HPTKSPSAL 20.000 491 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 492 HCV 2a 56 66 9 B_3501 HPTKSPSAL 20.000 493 HCV 2a 56 66 9 B_3501 HPTKSPSAL 20.000 494 HCV 2a 56 66 9 B_3501 HPTKSPSAL 20.000 495 HCV 2a 56 66 9 B_3501 HPTKSPSAL 20.000 496 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 497 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 498 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 499 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 490 HCV 2a 56 65 9 B_3501 HPTKSPSAL 30.000 491 HCV 2a 56 65 9 B_3501 HPTKSPSAL 30.000 492 HCV 2a 56 65 9 B_3501 LSFRLAGM 10.000 493 HCV 2a 56 65 9 B_3501 LSFRLAGM 10.000 494 HCV 2a 56 65 9 B_3501 LSFRLAGM 10.000 495 HCV 2a 56 67 9 B_4403 TSARVTRY 27.000 496 HCV 2a 56 67 10 B_7 APRESPERVE 36.000 497 HCV 2a 56 67 10 B_7 APRESPERVE 36.000 498 HCV 2a 56 67 10 B_7 APRESPERVE 36.000 499 HCV 2a 56 67 10 B_7 APRESPERVE 36.000 500 HCV 2a 56 64 10 B_3501 GPREPARVL 120.000 501 HCV 2a 56 64 10 B_3501 TMSARVTRY 13.500 502 HCV 2a 56 64 10 B_3501 TMSARVTRY 13.500 503 HCV 2a 56 64 10 B_3501 TMSARVTRY 13.500 504 HCV 2a 56 64 10 B_3501 TMSARVTRY 13.500 505 HCV 2a 56 77 10 B_7 APRESPERVE 120.000 506 HCV 2a 56 77 10 B_3501 TMSARVTRY 13.500 507 HCV 2a 56 67 10 B_3501 TMSARVTRY 13.500 508 HCV 2a 56 57 9 B_4001 TMSARVTRY 13.500 509 HCV 2a 56 57 9 B_7 AD TMSARVTRY 13.500 501 HCV 2a 56 57 9 B_7 AD TMSARVTRY 13.500 502	472	HCV 2a	55	28	10	в8	NPRVaATEGL	16.000
475 NCV 2a 55 39 10 B_3501 TSTIYPWAAY 10.000 476 NCV 2a 55 34 10 B_4403 TEGLSTSTLY 180.000 477 NCV 2a 55 56 10 B_4403 TPLPVGACKY 27.000 478 NCV 2a 56 36 9 A_0201 GPEDDFKV 10.797 479 NCV 2a 56 47 9 A3 GLGESNAPR 18.000 480 NCV 2a 56 108 9 B7 GPREPARVL 1.200.000 481 NCV 2a 56 40 9 B7 GPREPARVL 1.200.000 482 NCV 2a 56 57 9 B7 SPREFARVL 20.000 483 NCV 2a 56 57 9 B7 SPREFARVL 12.000 484 NCV 2a 56 50 52 9 B7 NAPRLSPRL 12.000 485 NCV 2a 56 108 9 B8 GPREPARVL 12.000 486 NCV 2a 56 108 9 B8 GPREPARVL 12.000 487 NCV 2a 56 109 9 B7 SPREFARVL 12.000 488 NCV 2a 56 57 9 B8 SPREFARVL 12.000 489 HCV 2a 56 09 B_3501 GPREPARVL 12.000 489 HCV 2a 56 6 93 9 B_3501 GPREPARVL 12.000 490 HCV 2a 56 6 93 9 B_3501 GPREPARVL 12.000 491 HCV 2a 56 6 9 B_3501 SPREFARVL 12.000 492 HCV 2a 56 65 9 B_3501 SPREFARVL 12.000 493 HCV 2a 56 65 9 B_3501 SPREFARVL 12.000 494 HCV 2a 56 65 9 B_3501 SPREFARVL 12.000 495 HCV 2a 56 65 9 B_3501 SPREFARVL 12.000 496 HCV 2a 56 65 9 B_3501 SPREFARVL 12.000 497 HCV 2a 56 65 9 B_3501 SPREFARVL 12.000 498 HCV 2a 56 65 9 B_3501 SPREFARVL 12.000 499 HCV 2a 56 65 9 B_3501 SPREFARVL 12.000 491 HCV 2a 56 65 9 B_3501 SPREFARVL 12.000 492 HCV 2a 56 65 9 B_3501 SASPETRY 10.000 493 HCV 2a 56 65 9 B_3501 SASPETRY 10.000 494 HCV 2a 56 65 9 B_3501 SASPETRY 27.000 495 HCV 2a 56 66 108 10 B7 GPREPARVL 13.500 500 HCV 2a 56 63 10 A3 GRITSAFRVITY 36.000 501 HCV 2a 56 61 08 10 B7 GPREPARVL 12.000 502 HCV 2a 56 64 10 B7 GPREPARVL 12.000 503 HCV 2a 56 66 108 10 B7 GPREPARVL 12.000 504 HCV 2a 56 77 10 B7 APRLEPERRA 135.000 505 HCV 2a 56 64 10 B 10 B8 GPREPARVL 12.000 506 HCV 2a 56 77 10 B7 APRLEPERRA 135.000 507 HCV 2a 56 64 10 B_3501 SASPETRY 13.500 508 HCV 2a 56 77 10 B3501 SASPETRY 13.500 509 HCV 2a 56 64 10 B_3501 SASPETRY 13.500 500 HCV 2a 56 77 10 B3501 SASPETRY 13.500 501 HCV 2a 56 77 10 B3501 SASPETRY 13.500 502 HCV 2a 56 77 10 B3501 SASPETRY 13.500 503 HCV 2a 56 77 10 B3501 SASPETRY 13.500 504 HCV 2a 56 77 10 B3501 SASPETRY 13.500 505 HCV 2a 56 77 10 B3501 SASPETRY 13.500 506 HCV 2a 56 77 10 B3501 SASPETRY 13.500 507 HCV 2a 56	473	HCV 2a	55	28	10	B_3501	NPRVaATEGL	60.000
476 HCV 2a 55 34 10 B_4403 TEG_STSTLY 180.000 477 HCV 2a 55 56 10 B_4403 PPLEVGACKY 27.000 478 HCV 2a 56 36 9 A_0201 GPPEDPFKV 10.797 479 HCV 2a 56 36 9 B_0201 GPPEDPFKV 10.797 480 HCV 2a 56 108 9 B7 GPREPARVL 1.200.000 481 HCV 2a 56 40 9 B7 GPREPARVL 80.000 482 HCV 2a 56 57 9 B7 SPRLRAGMT 20.000 483 HCV 2a 56 52 9 B7 NAPKLSPRL 12.000 484 HCV 2a 56 108 9 B8 GPREPARVL 12.000 485 HCV 2a 56 108 9 B8 SPRLRAGMT 20.000 486 HCV 2a 56 108 9 B8 SPRLRAGMT 16.000 487 HCV 2a 56 108 9 B8 SPRLRAGMT 16.000 488 HCV 2a 56 108 9 B8 SPRLRAGMT 16.000 489 HCV 2a 56 108 9 B_3501 GPREPARVL 120.000 489 HCV 2a 56 93 9 B_3501 HPTKSPSAL 20.000 489 HCV 2a 56 57 9 B8 SPRLRAGMT 16.000 489 HCV 2a 56 6 9 B_3501 GPREPARVL 120.000 490 HCV 2a 56 6 65 9 B_3501 HPTKSPSAL 20.000 491 HCV 2a 56 65 9 B_3501 GPREPARVL 120.000 492 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 493 HCV 2a 56 65 9 B_3501 GPREPARVL 10.000 494 HCV 2a 56 6 65 9 B_3501 GPREPARVL 10.000 495 HCV 2a 56 6 65 9 B_3501 GPREPARVL 10.000 496 HCV 2a 56 108 9 B_3601 GPREPARVL 10.000 497 HCV 2a 56 108 10 B7 GPREPARVL 10.000 498 HCV 2a 56 108 10 B_3601 GPREPARVL 10.000 499 HCV 2a 56 108 10 B_3601 GPREPARVL 10.000 490 HCV 2a 56 108 10 B_3601 GPREPARVL 10.000 491 HCV 2a 56 108 10 B7 GPREPARVL 10.000 492 HCV 2a 56 108 10 B7 GPREPARVL 10.000 493 HCV 2a 56 108 10 B7 GPREPARVL 10.000 494 HCV 2a 56 6 108 10 B7 GPREPARVL 10.000 495 HCV 2a 56 108 10 B7 GPREPARVL 10.000 496 HCV 2a 56 6 108 10 B7 GPREPARVL 10.000 501 HCV 2a 56 6 108 10 B7 GPREPARVL 10.000 502 HCV 2a 56 6 108 10 B7 GPREPARVL 10.000 503 HCV 2a 56 6 108 10 B3501 GPREPARVL 10.000 504 HCV 2a 56 6 108 10 B7 GPREPARVL 10.000 505 HCV 2a 56 6 108 10 B_3501 GPREPARVL 10.000 506 HCV 2a 56 108 10 B_3501 GPREPARVL 10.000 507 HCV 2a 56 6 108 10 B_3501 GPREPARVL 10.000 508 HCV 2a 56 77 10 B_3501 APHENGSKDL 10.000 509 HCV 2a 56 77 10 B_3501 APHENGSKDL 10.000 500 HCV 2a 56 77 10 B_3501 APHENGSKDL 10.000 501 HCV 2a 56 77 10 B_3501 APHENGSKDL 10.000 502 HCV 2a 56 77 10 B_3501 APHENGSKDL 10.000 503 HCV 2a 56 77 10 B_3501 APHENGSKDL 10.000 504 HCV 2a 57 27 9 A	474	HCV 2a	55	56	10	в_3501	FPLPvGACKY	40.000
477 HCV 2a 55 56 10 B_4403 FPLPVGACKY 27.000 478 HCV 2a 56 36 9 A_0201 GPPEDFFKV 10.797 479 HCV 2a 56 47 9 A3 GLGESNAPR 18.000 480 HCV 2a 56 108 9 B7 GPREPARVL 1.200.000 481 HCV 2a 56 93 9 B7 HPTKSPSAL 80.000 482 HCV 2a 56 57 9 B7 SFRIRAGMT 20.000 483 HCV 2a 56 57 9 B7 SFRIRAGMT 20.000 484 HCV 2a 56 57 9 B7 SFRIRAGMT 20.000 485 HCV 2a 56 50 9 B7 NAPLSPRL 12.000 486 HCV 2a 56 57 9 B8 SFRIRAGMT 16.000 487 HCV 2a 56 108 9 B3501 GPREPARVL 12.000 488 HCV 2a 56 108 9 B_3501 DFFKVERGL 20.000 489 HCV 2a 56 108 9 B_3501 DFFKVERGL 20.000 489 HCV 2a 56 93 9 B_3501 DFFKVERGL 20.000 490 HCV 2a 56 36 9 B_3501 GPREPARVL 120.000 491 HCV 2a 56 56 9 B_3501 GPREPARVL 10.000 492 HCV 2a 56 56 9 B_3501 LSPRIRAGM 10.000 493 HCV 2a 56 65 9 B_4403 TSAFKVTRY 10.000 494 HCV 2a 56 65 9 B_4403 TSAFKVTRY 27.000 495 HCV 2a 56 63 10 A1 STAFKVTRY 36.000 496 HCV 2a 56 63 10 A2 STAFKVTRY 36.000 497 HCV 2a 56 63 10 A3 GMTSAFKVTRY 36.000 498 HCV 2a 56 63 10 A3 GMTSAFKVTRY 36.000 499 HCV 2a 56 63 10 A3 GMTSAFKVTRY 36.000 499 HCV 2a 56 63 10 B3 GMTSAFKVTRY 36.000 499 HCV 2a 56 63 10 B7 GPREPARVL 12.000 499 HCV 2a 56 63 10 B7 GPREPARVL 12.000 499 HCV 2a 56 63 10 B7 GPREPARVL 12.000 499 HCV 2a 56 63 10 B7 GPREPARVL 12.000 499 HCV 2a 56 63 10 B7 GPREPARVL 12.000 499 HCV 2a 56 63 10 B7 GPREPARVL 12.000 499 HCV 2a 56 63 10 B7 GPREPARVL 12.000 500 HCV 2a 56 63 10 B7 GPREPARVL 12.000 501 HCV 2a 56 60 108 10 B7 GPREPARVL 12.000 502 HCV 2a 56 108 10 B7 GPREPARVL 12.000 503 HCV 2a 56 108 10 B7 GPREPARVL 12.000 504 HCV 2a 56 64 10 B_3501 GPREPARVL 12.000 505 HCV 2a 56 64 10 B_3501 GPREPARVL 12.000 506 HCV 2a 56 67 10 B_3501 GPREPARVL 12.000 507 HCV 2a 56 64 10 B_3501 GPREPARVL 12.000 508 HCV 2a 56 77 10 B_3501 GPREPARVL 12.000 509 HCV 2a 56 77 10 B_3501 GPREPARVL 12.000 500 HCV 2a 56 77 10 B_3501 GPREPARVL 12.000 501 HCV 2a 56 77 10 B_3501 GPREPARVL 12.000 502 HCV 2a 56 77 10 B_3501 GPREPARVL 12.000 503 HCV 2a 56 77 10 B_3501 GPREPARVL 12.000 504 HCV 2a 56 77 10 B_3501 GPREPARVL 12.000 505 HCV 2a 56 77 10 B_3501 GPREPARVL 12.000 506 HCV 2a 56 77 10 B_3501 GPRE	475	HCV 2a	55	39	10	B_3501	TSTLYPWAAY	10.000
478 HCV 2a 56 36 9 A_0201 GPPEDFFKV 10.797 479 HCV 2a 56 47 9 A3 GLGESNAPR 18.000 480 HCV 2a 56 108 9 B7 GPREPARVL 1.200.000 481 HCV 2a 56 93 9 B7 HPTKSPSAL 80.000 482 HCV 2a 56 57 9 B7 SPRIRAGMT 20.000 483 HCV 2a 56 57 9 B7 SPRIRAGMT 20.000 484 HCV 2a 56 57 9 B7 SPRIRAGMT 20.000 485 HCV 2a 56 50 9 B8 GPREPARVL 12.000 486 HCV 2a 56 50 9 B8 GPREPARVL 24.000 487 HCV 2a 56 108 9 B8 GPREPARVL 12.000 488 HCV 2a 56 108 9 B8 SPRIRAGMT 16.000 489 HCV 2a 56 008 9 B_3501 GPREPARVL 120.000 489 HCV 2a 56 36 9 B_3501 HPTKSPSAL 20.000 490 HCV 2a 56 65 9 B_3501 TESTEVERGL 20.000 491 HCV 2a 56 65 9 B_3501 TESTEVERGL 20.000 492 HCV 2a 56 65 9 B_3501 TESTEVERY 10.000 493 HCV 2a 56 65 9 B_3501 TESTEVERY 10.000 494 HCV 2a 56 65 9 B_3501 TESTEVERY 10.000 495 HCV 2a 56 65 9 B_3501 TESTEVERY 10.000 496 HCV 2a 56 65 9 B_3501 TESTEVERY 10.000 497 HCV 2a 56 65 9 B_3501 TESTEVERY 10.000 498 HCV 2a 56 65 9 B_3501 TESTEVERY 10.000 499 HCV 2a 56 65 9 B_3501 TESTEVERY 10.000 490 HCV 2a 56 65 9 B_3501 TESTEVERY 10.000 491 HCV 2a 56 65 9 B_3501 TESTEVERY 10.000 492 HCV 2a 56 65 9 B_3501 TESTEVERY 10.000 493 HCV 2a 56 65 9 B_3501 TESTEVERY 10.000 494 HCV 2a 56 65 9 B_3501 TESTEVERY 10.000 495 HCV 2a 56 17 9 B_4403 TESTEVERY 10.000 496 HCV 2a 56 10 B_403 TESTEVERY 10.000 497 HCV 2a 56 63 10 A1 STOPEDPEFK 10.000 498 HCV 2a 56 63 10 A2 GMPSAFRVIR 36.000 498 HCV 2a 56 63 10 B7 GPREPARVL 10.000 499 HCV 2a 56 60 108 10 B7 GPREPARVL 10.000 499 HCV 2a 56 60 108 10 B7 GPREPARVL 10.000 500 HCV 2a 56 60 108 10 B8 GPREPARVL 10.000 501 HCV 2a 56 60 108 10 B8 GPREPARVL 10.000 502 HCV 2a 56 60 108 10 B3501 GPREPARVL 10.000 503 HCV 2a 56 60 108 10 B3501 GPREPARVL 10.000 504 HCV 2a 56 60 108 10 B3501 GPREPARVL 10.000 505 HCV 2a 56 60 108 10 B3501 GPREPARVL 10.000 506 HCV 2a 56 77 10 B_3501 SSASLGMKSM 10.000 507 HCV 2a 56 60 108 10 B3501 GPREPARVL 10.000 508 HCV 2a 56 60 108 10 B3501 GPREPARVL 10.000 509 HCV 2a 56 60 108 10 B3501 GPREPARVL 10.000 509 HCV 2a 56 70 10 B_3501 GPREPARVL 10.000 500 HCV 2a 56 70 10 B_3501 GPREPARVL 10.000 501 HCV 2a 56 70 10 B_3501 GP	476	HCV 2a	55	34	10	B_4403	TEGLSTSTLY	180.000
479 HCV 2a 56 47 9 A3 GLGESNAPR 18.000 480 HCV 2a 56 108 9 B7 GPREPARVL 1.200.000 481 HCV 2a 56 93 9 B7 HPTKSPSAL 80.000 482 HCV 2a 56 40 9 B7 DPFKVERGL 80.000 483 HCV 2a 56 57 9 B7 SPRIRAGET 20.000 484 HCV 2a 56 57 9 B7 SPRIRAGET 20.000 485 HCV 2a 56 52 9 B7 NAPRLSPRL 12.000 486 HCV 2a 56 108 9 B8 GPREPARVL 24.000 487 HCV 2a 56 108 9 B8 GPREPARVL 12.000 488 HCV 2a 56 108 9 B.3501 GPREPARVL 12.000 489 HCV 2a 56 00 9 B.3501 DPFKVERGL 20.000 489 HCV 2a 56 93 9 B.3501 HPTKSPSAL 20.000 490 HCV 2a 56 65 9 B.3501 HPTKSPSAL 20.000 491 HCV 2a 56 65 9 B.3501 LSPRIRAGET 10.000 492 HCV 2a 56 65 9 B.3501 LSPRIRAGE 10.000 493 HCV 2a 56 65 9 B.3501 LSPRIRAGE 10.000 494 HCV 2a 56 65 9 B.3501 LSPRIRAGE 10.000 495 HCV 2a 56 65 9 B.3501 LSPRIRAGE 10.000 496 HCV 2a 56 65 9 B.3501 LSPRIRAGE 10.000 497 HCV 2a 56 65 9 B.3501 LSPRIRAGE 10.000 498 HCV 2a 56 65 9 B.3501 LSPRIRAGE 10.000 499 HCV 2a 56 65 9 B.3501 LSPRIRAGE 10.000 490 HCV 2a 56 65 9 B.3501 LSPRIRAGE 10.000 491 HCV 2a 56 65 9 B.3501 LSPRIRAGE 10.000 492 HCV 2a 56 67 9 B.4403 TSAFRVTRY 27.000 493 HCV 2a 56 67 9 B.4403 TSAFRVTRY 37.000 494 HCV 2a 56 67 0 B.3601 LSPRIRAGE 10.000 495 HCV 2a 56 67 0 B.4003 TSAFRVTR 36.000 496 HCV 2a 56 67 10 B.7 APPLEDEPFK 10.000 497 HCV 2a 56 60 108 10 B7 APPLEDEPFK 10.000 500 HCV 2a 56 108 10 B7 APPLEDEPK 10.000 501 HCV 2a 56 108 10 B7 APPLEDEPK 10.000 502 HCV 2a 56 60 108 10 B8 GPREPARVL 10.000 503 HCV 2a 56 60 108 10 B8 GPREPARVL 10.000 504 HCV 2a 56 60 108 10 B8 GPREPARVL 10.000 505 HCV 2a 56 60 108 10 B.3501 GPREPARVL 10.000 506 HCV 2a 56 60 108 10 B.3501 GPREPARVL 10.000 507 HCV 2a 56 60 108 10 B.3501 GPREPARVL 10.000 508 HCV 2a 56 77 10 B.3501 GPREPARVL 10.000 509 HCV 2a 56 77 10 B.3501 GPREPARVL 10.000 500 HCV 2a 56 77 10 B.3501 GPREPARVL 10.000 501 HCV 2a 56 60 108 10 B.3501 GPREPARVL 10.000 502 HCV 2a 56 77 10 B.3501 GPREPARVL 10.000 503 HCV 2a 56 77 10 B.3501 GPREPARVL 10.000 504 HCV 2a 56 77 10 B.3501 GPREPARVL 10.000 505 HCV 2a 56 77 10 B.3501 GPREPARVL 10.000 506 HCV 2a 56 77 10 B.3501 GPREPARVL 10.000 507 HCV 2a 56 77 10 B.3501	477	HCV 2a	55	56	10	B_4403	FPLPvGACKY	27.000
480 HCV 2a 56 108 9 B7 GPREPARVL 1.200.000 481 HCV 2a 56 93 9 B7 HPTKSPSAL 80.000 482 HCV 2a 56 40 9 B7 DPFKVERGL 90.000 483 HCV 2a 56 57 9 B7 SPRILAGMT 20.000 484 HCV 2a 56 57 9 B7 NAPRISPRL 12.000 485 HCV 2a 56 108 9 B8 GPREPARVL 24.000 486 HCV 2a 56 57 9 B8 SPRILAGMT 16.000 487 HCV 2a 56 108 9 B8 SPRILAGMT 16.000 488 HCV 2a 56 108 9 B_3501 GPREPARVL 120.000 489 HCV 2a 56 108 9 B_3501 HPTKSPSAL 20.000 489 HCV 2a 56 36 9 B_3501 HPTKSPSAL 20.000 490 HCV 2a 56 36 9 B_3501 HPTKSPSAL 20.000 491 HCV 2a 56 65 9 B_3501 GPREPARVL 12.000 492 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 493 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 494 HCV 2a 56 65 9 B_3501 HPTKSPSAL 20.000 495 HCV 2a 56 65 9 B_3501 HSTKSPSAL 20.000 496 HCV 2a 56 65 9 B_3501 HSTKSPSAL 30.000 497 HCV 2a 56 65 9 B_3501 HSTKSPSAL 30.000 498 HCV 2a 56 65 9 B_3501 HSTKSPSAL 30.000 499 HCV 2a 56 65 9 B_3501 HSTKSPSAL 30.000 490 HCV 2a 56 65 9 B_3501 HSTKSPSAL 30.000 491 HCV 2a 56 65 9 B_3501 HSTKSPSAL 30.000 492 HCV 2a 56 65 9 B_3501 HSTKSPSAL 30.000 493 HCV 2a 56 65 9 B_3601 HSTKSPSAL 30.000 494 HCV 2a 56 67 9 B_403 TSAFRVTRY 27.000 495 HCV 2a 56 67 9 B_403 TSAFRVTRY 30.000 496 HCV 2a 56 67 10 A_0201 GLGESNAPRL 87.586 497 HCV 2a 56 63 10 A3 GMTSAFRVTR 36.000 498 HCV 2a 56 60 108 10 B7 GFREDARVIL 12.000 499 HCV 2a 56 77 10 B7 APHENGKDL 240.000 500 HCV 2a 56 53 10 B7 APHENGKDL 240.000 501 HCV 2a 56 60 108 10 B8 GPREDARVIL 12.000 502 HCV 2a 56 62 10 B_3501 SSASCMKSM 10.000 503 HCV 2a 56 62 10 B_3501 SSASCMKSM 10.000 504 HCV 2a 56 64 10 B_403 MTSAFRVTRY 13.500 505 HCV 2a 56 64 10 B_403 MTSAFRVTRY 13.500 506 HCV 2a 56 67 10 B_3501 HSAFRVTRY 13.500 507 HCV 2a 56 64 10 B_403 MTSAFRVTRY 13.500 508 HCV 2a 56 77 10 B_3501 SSASCMKSM 10.000 509 HCV 2a 56 77 10 B_3501 SSASCMKSM 10.000 500 HCV 2a 56 77 10 B_3501 SSASCMKSM 10.000 501 HCV 2a 56 77 10 B_3501 SSASCMKSM 10.000 502 HCV 2a 56 77 10 B_3501 SSASCMKSM 10.000 503 HCV 2a 56 77 10 B_3501 SSASCMKSM 10.000 504 HCV 2a 56 77 10 B_3501 SSASCMKSM 10.000 505 HCV 2a 56 70 10 B_3501 SSASCMKSM 10.000 506 HCV 2a 56 77 10 B_3501 SSASCMKSM	478	HCV 2a	56	36	9	A_0201	GPPEDPFKV	10.797
481 HCV 2a 56 93 9 B7 HPTKSPSAL 80.000 482 HCV 2a 56 40 9 B7 DPFKVERGL 80.000 483 HCV 2a 56 57 9 B7 SPRLBAGMT 20.000 484 HCV 2a 56 52 9 B7 NAPRLSPRL 12.000 485 HCV 2a 56 108 9 B8 GPREPARVL 24.000 486 HCV 2a 55 57 9 B8 SPRLBAGMT 16.000 487 HCV 2a 56 108 9 B8 SPRLBAGMT 16.000 488 HCV 2a 56 40 9 B_3501 DPFKVERGL 20.000 489 HCV 2a 56 36 9 B_3501 DPFKVERGL 20.000 489 HCV 2a 56 36 9 B_3501 HPTKSPSAL 20.000 491 HCV 2a 56 65 9 B_3501 SPRLBAGMT 10.000 492 HCV 2a 56 65 9 B_3501 SPRLBAGMT 10.000 493 HCV 2a 56 65 9 B_3501 SPRLBAGM 10.000 494 HCV 2a 56 65 9 B_3501 SPRLBAGM 10.000 495 HCV 2a 56 65 9 B_3501 SPRLBAGM 10.000 496 HCV 2a 56 65 9 B_3403 TSAFRVTRY 10.000 497 HCV 2a 56 65 9 B_4403 TSAFRVTRY 27.000 498 HCV 2a 56 67 9 B_4403 TSAFRVTRY 27.000 499 HCV 2a 56 67 9 B_403 TSAFRVTRY 27.000 496 HCV 2a 56 67 9 B_403 TSAFRVTRY 27.000 497 HCV 2a 56 67 9 B_403 TSAFRVTRY 27.000 498 HCV 2a 56 67 10 A_0201 GLGENAPRL 87.586 499 HCV 2a 56 67 10 A_0201 GLGENAPRL 87.586 499 HCV 2a 56 67 10 B TO A_0201 GLGENAPRL 87.586 499 HCV 2a 56 108 10 B7 SPREBARVL 12.000 500 HCV 2a 56 108 10 B7 SPREBARVL 12.000 501 HCV 2a 56 108 10 B7 APRLBFREA 135.000 501 HCV 2a 56 108 10 B8 GPREPARVL 12.000 502 HCV 2a 56 108 10 B8 GPREPARVL 12.000 503 HCV 2a 56 108 10 B8 GPREPARVL 12.000 504 HCV 2a 56 108 10 B8 GPREPARVL 12.000 505 HCV 2a 56 108 10 B8 GPREPARVL 12.000 506 HCV 2a 56 108 10 B3501 SASSEMBL 12.000 507 HCV 2a 56 64 10 B_3501 SASSEMBL 12.000 508 HCV 2a 56 64 10 B_3501 SASSEMBL 12.000 509 HCV 2a 56 64 10 B_3501 SASSEMBL 12.000 509 HCV 2a 56 64 10 B_3501 SASSEMBKM 10.000 509 HCV 2a 57 31 9 A_0201 TMAPKRPV 50.232 509 HCV 2a 57 31 9 A_0201 TMAPKRPV 50.232 509 HCV 2a 57 31 9 B7 VPRRDWTV 40.000 512 HCV 2a 57 31 9 B7 VPRRDWTV 40.000 513 HCV 2a 57 31 9 B7 VPRRDWTV 40.000 514 HCV 2a 57 37 9 B3 VMLTTMAPK 45.000 515 HCV 2a 57 37 9 B7 VPRRDWTV 40.000 515 HCV 2a 57 37 9 B7 A_0201 TMAPKRPV 40.000 516 HCV 2a 57 37 9 B7 VPRRDWTV 40.000	479	HCV 2a	56	. 47	9	A3	GLGESNAPR	18.000
482 HCV 2a 56 40 9 B7 DPFKVERGL 80.000 483 HCV 2a 56 57 9 B7 SPRLRAGMT 20.000 484 HCV 2a 56 57 9 B7 NAPRISPEL 12.000 485 HCV 2a 56 108 9 B8 GPREPARVL 24.000 486 HCV 2a 56 57 9 B8 SPRLRAGMT 16.000 487 HCV 2a 56 108 9 B_3501 DPFKVERGL 20.000 488 HCV 2a 56 40 9 B_3501 DPFKVERGL 20.000 489 HCV 2a 56 36 9 B_3501 DPFKVERGL 20.000 489 HCV 2a 56 36 9 B_3501 DPFKVERGL 20.000 491 HCV 2a 56 65 9 B_3501 SPREPARVE 10.000 492 HCV 2a 56 65 9 B_3501 SPREPARVE 10.000 493 HCV 2a 56 65 9 B_3501 SPREPARVE 27.000 494 HCV 2a 56 65 9 B_3403 TSAFRVTRY 27.000 495 HCV 2a 56 65 9 B_4403 TSAFRVTRY 27.000 496 HCV 2a 56 34 10 A1 STEPPEDPFK 10.000 497 HCV 2a 56 36 10 B_403 REHTAARK 13.500 498 HCV 2a 56 63 10 A3 GMTSAFRVTR 36.000 499 HCV 2a 56 63 10 B_7 GPREPARVL 77.000 498 HCV 2a 56 63 10 BP GPREPARVL 77.000 499 HCV 2a 56 63 10 BP GPREPARVL 77.000 499 HCV 2a 56 60 108 10 BP GPREPARVL 10.000 498 HCV 2a 56 60 108 10 BP GPREPARVL 10.000 500 HCV 2a 56 108 10 BP APRLEPARVE 10.000 501 HCV 2a 56 108 10 BP APRLEPARVE 10.000 502 HCV 2a 56 108 10 BP APRLEPARVE 10.000 503 HCV 2a 56 108 10 BP APRLEPARVE 10.000 504 HCV 2a 56 108 10 BP APRLEPARVE 10.000 505 HCV 2a 56 108 10 BB GPREPARVL 10.000 506 HCV 2a 56 108 10 BB GPREPARVL 10.000 507 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 508 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 509 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 509 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 509 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 509 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 509 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 509 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 509 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 509 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 509 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 509 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 509 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 509 HCV 2a 56 6 108 10 BB GPREPARVL 10.000 509 HCV 2a 57 89 A.0201 TMAPKRPV 50.232 509 HCV 2a 57 89 A.0201 TMAPKRPV 50.232 509 HCV 2a 57 27 9 A.0201 TMAPKRPV 40.000 513 HCV 2a 57 27 9 A.0201 MATTMAPK 45.000 514 HCV 2a 57 33 9 BT VPRIDWITT 40.000	480	HCV 2a	56	108	9	B7	GPREPARVL	1.200.000
483 HCV 2a 56 57 9 B7 SPRLRAGMT 20.000 484 HCV 2a 56 52 9 B7 NAPRLSPRL 12.000 485 HCV 2a 56 52 9 B7 NAPRLSPRL 12.000 486 HCV 2a 56 56 57 9 B8 SPRLRAGMT 24.000 487 HCV 2a 56 108 9 B_3501 GPREPARVL 120.000 488 HCV 2a 56 40 9 B_3501 DPFKVERGL 20.000 489 HCV 2a 56 36 9 B_3501 HPTKSPSAL 20.000 490 HCV 2a 56 65 9 B_3501 GPREPARVL 12.000 491 HCV 2a 56 65 9 B_3501 TSAFRVTRY 10.000 492 HCV 2a 56 65 9 B_3501 LSPRLRAGM 10.000 493 HCV 2a 56 65 9 B_3501 LSPRLRAGM 10.000 494 HCV 2a 56 65 9 B_4403 TSAFRVTRY 27.000 495 HCV 2a 56 65 9 B_4403 TSAFRVTRY 27.000 496 HCV 2a 56 65 17 9 B_4403 REHTAARKI 13.500 497 HCV 2a 56 63 10 A1 STOPPEDEPK 10.000 498 HCV 2a 56 63 10 A3 GMTSAFRVTR 36.000 498 HCV 2a 56 63 10 BF GFREDARVL 17.200.000 499 HCV 2a 56 63 10 BF GFREDARVL 10.000 498 HCV 2a 56 60 108 10 BF GFREDARVL 10.000 500 HCV 2a 56 108 10 BF APRLHGSKDL 240.000 501 HCV 2a 56 108 10 BF APRLHGSKDL 240.000 501 HCV 2a 56 108 10 BF APRLHGSKDL 240.000 503 HCV 2a 56 108 10 BF APRLHGSKDL 240.000 504 HCV 2a 56 6 108 10 BF APRLHGSKDL 240.000 505 HCV 2a 56 6 108 10 BB GPREDARVLL 120.000 506 HCV 2a 56 6 108 10 BB GPREDARVLL 120.000 507 HCV 2a 56 6 108 10 B_3501 GPREDARVLL 120.000 508 HCV 2a 56 6 108 10 B_3501 GPREDARVLL 120.000 509 HCV 2a 56 6 64 10 B_3501 SASSLEMKSM 10.000 509 HCV 2a 56 6 64 10 B_3501 SASSLEMKSM 10.000 509 HCV 2a 56 64 10 B_3501 SASSLEMKSM 10.000 509 HCV 2a 56 64 10 B_3501 SASSLEMKSM 10.000 509 HCV 2a 56 64 10 B_3501 SASSLEMKSM 10.000 509 HCV 2a 56 64 10 B_3501 SASSLEMKSM 10.000 509 HCV 2a 56 64 10 B_4403 MTSAFRVTRY 13.500 509 HCV 2a 57 31 9 A_0201 TMAPKRPV 50.232 509 HCV 2a 57 31 9 A_0201 TMAPKRPV 50.232 509 HCV 2a 57 31 9 BO A_0201 MINITARPK 45.000 511 HCV 2a 57 8 9 A_0201 MINITARPK 45.000 512 HCV 2a 57 31 9 BF VFRKDWIT 40.000 513 HCV 2a 57 31 9 BF VFRKDWIT 40.000 514 HCV 2a 57 8 9 A_0201 MINITARPK 45.000 515 HCV 2a 57 8 9 A_0201 MINITARPK 45.000 516 HCV 2a 57 8 9 A_0201 MINITARPK 45.000 517 HCV 2a 57 21 9 BF SVLSRPWL 10.000	481	HCV 2a	56	93	9	в7	HPTKSPSAL	80.000
### ### ### ### ### ### ### ### ### ##	482	HCV 2a	56	40	9	в7	DPFKVERGL	80.000
### ### ### ### ### ### ### ### ### ##	483	HCV 2a	56	57	9	в7	SPRLRAGMT	20.000
486 HCV 2a 56 57 9 B8 SPRIRAGMT 16.000 487 HCV 2a 56 108 9 B_3501 GPREPARVL 120.000 488 HCV 2a 56 40 9 B_3501 DPFKVERGL 20.000 489 HCV 2a 56 36 93 9 B_3501 HPTKSPSAL 20.000 491 HCV 2a 56 36 9 B_3501 HPTKSPSAL 20.000 491 HCV 2a 56 65 9 B_3501 GPPEDPFKV 12.000 492 HCV 2a 56 65 9 B_3501 GPPEDPFKV 10.000 493 HCV 2a 56 65 9 B_3501 LSPRIRAGM 10.000 494 HCV 2a 56 65 9 B_3501 LSPRIRAGM 10.000 495 HCV 2a 56 65 9 B_4403 TSAFRVTRY 27.000 496 HCV 2a 56 34 10 A1 STGPDEDPFK 10.000 496 HCV 2a 56 63 10 A3 GMTSAFRVTR 36.000 497 HCV 2a 56 63 10 A3 GMTSAFRVTR 36.000 498 HCV 2a 56 63 10 BF APHLEPRIKA 36.000 500 HCV 2a 56 57 10 BF APHLEPRIKA 135.000 501 HCV 2a 56 108 10 BF APHLEPRIKA 135.000 501 HCV 2a 56 108 10 BF APHLEPRIKA 135.000 502 HCV 2a 56 108 10 BF APHLEPRIKA 135.000 503 HCV 2a 56 108 10 BF APHLEPRIKA 135.000 504 HCV 2a 56 108 10 BF APHLEPRIKA 135.000 505 HCV 2a 56 108 10 BF APHLEPRIKA 135.000 506 HCV 2a 56 108 10 BF APHLEPRIKA 135.000 507 HCV 2a 56 6 2 10 B_3501 GPREPARVLL 120.000 508 HCV 2a 56 108 10 B_3501 GPREPARVLL 120.000 509 HCV 2a 56 108 10 B_3501 GPREPARVLL 120.000 500 HCV 2a 56 77 10 B_3501 APHENGSKDL 40.000 501 HCV 2a 56 77 10 B_3501 SSASLGMKSM 10.000 502 HCV 2a 56 108 10 B_3501 GPREPARVLL 120.000 503 HCV 2a 56 6 2 10 B_3501 SSASLGMKSM 10.000 504 HCV 2a 56 6 64 10 B_4403 MTSAFRVTRY 13.500 505 HCV 2a 56 6 92 10 B_3501 SSASLGMKSM 10.000 506 HCV 2a 57 31 9 A_0201 VLSRPVMLT 29.137 510 HCV 2a 57 27 9 A_0201 VLSRPVMLT 29.137 510 HCV 2a 57 27 9 A_0201 VLSRPVMLT 29.137 510 HCV 2a 57 27 9 A_0201 VLSRPVMLT 45.000 511 HCV 2a 57 27 9 A_0201 VLSRPVMLT 45.000 512 HCV 2a 57 27 9 A_0201 VLSRPVML 45.000 513 HCV 2a 57 31 9 B7 VPRKDWTV 40.000 514 HCV 2a 57 27 9 A_0201 VLSRPVML 45.000	484	HCV 2a	56	52	9	B7	NAPRLSPRL	
487 HCV 2a 56 108 9 B_3501 GPREPARVL 120.000 488 HCV 2a 56 40 9 B_3501 DPFKVERGL 20.000 489 HCV 2a 56 93 9 B_3501 DPFKVERGL 20.000 490 HCV 2a 56 36 9 B_3501 GPEDPFKV 12.000 491 HCV 2a 56 65 9 B_3501 TSAFRVTRY 10.000 492 HCV 2a 56 65 9 B_3501 LSPRLAGM 10.000 493 HCV 2a 56 65 9 B_3501 LSPRLAGM 10.000 494 HCV 2a 56 65 9 B_4403 TSAFRVTRY 27.000 495 HCV 2a 56 65 9 B_4403 TSAFRVTRY 27.000 496 HCV 2a 56 65 17 9 B_4403 TSAFRVTRY 10.000 497 HCV 2a 56 63 10 A1 STGPDEDFFK 10.000 498 HCV 2a 56 63 10 A3 GMTSAFRVTR 36.000 499 HCV 2a 56 63 10 BF7 GFREDARVL 1.200.000 499 HCV 2a 56 63 10 BF7 APHENGSKDL 240.000 500 HCV 2a 56 53 10 BF7 APHENGSKDL 240.000 501 HCV 2a 56 108 10 BF ASTGMKSMDL 12.000 502 HCV 2a 56 108 10 BF GPREDARVL 12.000 503 HCV 2a 56 108 10 BS GPREDARVL 12.000 504 HCV 2a 56 108 10 BS GPREDARVL 12.000 505 HCV 2a 56 108 10 B_3501 GPREDARVL 12.000 506 HCV 2a 56 0 B_3501 SSASLGMKSM 10.000 507 HCV 2a 56 6 4 10 B_3501 GSKDLVPGGL 30.000 508 HCV 2a 56 6 4 10 B_3501 GSKDLVPGGL 30.000 509 HCV 2a 56 6 4 10 B_3501 TMPENGSKDL 40.000 500 HCV 2a 56 6 4 10 B_3501 GSKDLVPGGL 30.000 501 HCV 2a 56 6 4 10 B_3501 GSKDLVPGGL 30.000 502 HCV 2a 56 6 4 10 B_3501 GSKDLVPGGL 30.000 503 HCV 2a 56 6 4 10 B_4403 MTSAFRVTRY 13.500 504 HCV 2a 56 6 4 10 B_4403 MTSAFRVTRY 13.500 505 HCV 2a 56 64 10 B_4403 MTSAFRVTRY 13.500 506 HCV 2a 57 31 9 A_0201 TMAPKPRV 50.232 509 HCV 2a 57 8 9 A_0201 TMAPKPRV 50.232 509 HCV 2a 57 8 9 A_0201 WTVTVRTWI 23.096 511 HCV 2a 57 27 9 A3 WMLTTMAPK 45.000 512 HCV 2a 57 37 9 B7 VPKNDWTV 40.000 513 HCV 2a 57 31 9 B7 VPKNDWTV 40.000 514 HCV 2a 57 37 3 9 B7 VPKNDWTV 40.000	485	HCV 2a	56	108	9	в8	GPREPARVL	24.000
488 HCV 2a 56 40 9 B_3501 DPFKVERGL 20.000 489 HCV 2a 56 93 9 B_3501 HPTKSPSAL 20.000 490 HCV 2a 56 36 9 B_3501 GPPEDPFKV 12.000 491 HCV 2a 56 65 9 B_3501 TSAFRVTRY 10.000 492 HCV 2a 56 65 9 B_3501 TSAFRVTRY 27.000 493 HCV 2a 56 65 9 B_4403 TSAFRVTRY 27.000 494 HCV 2a 56 65 9 B_4403 TSAFRVTRY 27.000 495 HCV 2a 56 34 10 A1 STGPDEDPFK 10.000 496 HCV 2a 56 47 10 A_0201 GLGESNAPRL 87.586 497 HCV 2a 56 63 10 A3 GMTSAFRVTR 36.000 498 HCV 2a 56 63 10 B7 APHENGSKDL 240.000 499 HCV 2a 56 53 10 B7 APRLEBPLRA 135.000 500 HCV 2a 56 53 10 B7 APRLEBPLRA 135.000 501 HCV 2a 56 108 10 B7 APRLEBPLRA 135.000 501 HCV 2a 56 108 10 B7 APRLEBPLRA 135.000 502 HCV 2a 56 108 10 B8 GPREDARVLL 120.000 503 HCV 2a 56 108 10 B8 GPREDARVLL 24.000 504 HCV 2a 56 108 10 B_3501 GPREDARVLL 120.000 505 HCV 2a 56 108 10 B_3501 GPREDARVLL 120.000 506 HCV 2a 56 6 2 10 B_3501 GSKD1VPGGL 30.000 507 HCV 2a 56 64 10 B_4403 MTSAFRVTRY 13.500 508 HCV 2a 56 64 10 B_4403 MTSAFRVTRY 13.500 508 HCV 2a 57 31 9 A_0201 VLSRPVMLT 29.137 510 HCV 2a 57 22 9 A_0201 VLSRPVMLT 29.137 510 HCV 2a 57 27 9 A3 VMLTTMAPK 45.000 511 HCV 2a 57 27 9 A3 VMLTTMAPK 45.000 512 HCV 2a 57 31 9 B7 VPRKDWVTV 40.000 513 HCV 2a 57 27 9 A3 VMLTTMAPK 45.000 514 HCV 2a 57 37 9 B7 VPRKDWVTV 40.000 515 HCV 2a 57 37 9 B7 VPRKDWVTV 40.000 515 HCV 2a 57 37 9 B7 VPRKDWVTV 40.000 516 HCV 2a 57 37 9 B7 VPRKDWVTV 40.000 517 HCV 2a 57 27 9 A3 VMLTTMAPK 45.000 518 HCV 2a 57 37 9 B7 VPRKDWVTV 40.000 519 HCV 2a 57 27 9 A3 VMLTTMAPK 45.000 510 HCV 2a 57 37 9 B7 VPRKDWVTV 40.000 511 HCV 2a 57 37 9 B7 VPRKDWVTV 40.000	486	HCV 2a	56	57	9	в8	SPRLRAGMT	16.000
489 HCV 2a 56 93 9 B_3501 HPTKSPSAL 20.000 490 HCV 2a 56 36 9 B_3501 GPPEDPFKV 12.000 491 HCV 2a 56 65 9 B_3501 TSAFRVTRY 10.000 492 HCV 2a 56 65 9 B_3501 LSPRLRAGM 10.000 493 HCV 2a 56 65 9 B_4403 TSAFRVTRY 27.000 494 HCV 2a 56 17 9 B_4403 REHTAARKI 13.500 495 HCV 2a 56 34 10 A1 STGPPEDPFK 10.000 496 HCV 2a 56 47 10 A_0201 GLGESNAPRL 87.586 497 HCV 2a 56 63 10 A3 GMTSAFRVTRY 36.000 499 HCV 2a 56 67 10 B7 APRENGRATI 1.200.000 499 HCV 2a 56 53 10 B7 APRENGRATI 1.200.000 500 HCV 2a 56 53 10 B7 APRENGRATI 135.000 501 HCV 2a 56 53 10 B7 APRENGRATI 135.000 501 HCV 2a 56 108 10 B8 GPREPARVLL 24.000 502 HCV 2a 56 108 10 B8 GPREPARVLL 120.000 503 HCV 2a 56 108 10 B8 GPREPARVLL 120.000 504 HCV 2a 56 108 10 B8 GPREPARVLL 120.000 505 HCV 2a 56 82 10 B_3501 GPREPARVLL 120.000 506 HCV 2a 56 64 10 B_3501 SSASLGMKSM 10.000 507 HCV 2a 56 64 10 B_3501 SSASLGMKSM 10.000 508 HCV 2a 56 64 10 B_3501 SSASLGMKSM 10.000 509 HCV 2a 56 64 10 B_3501 SSASLGMKSM 10.000 507 HCV 2a 56 64 10 B_4403 MTSAFRVTRY 13.500 508 HCV 2a 57 31 9 A_0201 TMAPKRPRV 50.232 509 HCV 2a 57 22 9 A_0201 VLSRPVMLT 29.137 510 HCV 2a 57 8 9 A_0201 WVTVDRTWI 23.096 511 HCV 2a 57 27 9 A3 VMLTTMAPK 45.000 512 HCV 2a 57 27 9 A3 VMLTTMAPK 45.000 513 HCV 2a 57 37 9 B7 VPRKDWVTV 40.000 514 HCV 2a 57 37 9 B7 VPRKDWVTV 40.000 5154 HCV 2a 57 31 9 B7 SVLSRPVML 20.000 5164 HCV 2a 57 37 39 B7 VPRKDWVTV 40.000	487	HCV 2a	56	108	9	B_3501	GPREPARVL	120.000
490 HCV 2a 56 36 9 B_3501 GPPEDFKV 12.000 491 HCV 2a 56 65 9 B_3501 TSAFRVTRY 10.000 492 HCV 2a 56 65 9 B_3501 LSPRLAGM 10.000 493 HCV 2a 56 65 9 B_4403 TSAFRVTRY 27.000 494 HCV 2a 56 65 9 B_4403 TSAFRVTRY 27.000 495 HCV 2a 56 17 9 B_4403 REHTAARKI 13.500 496 HCV 2a 56 34 10 A1 STOPPEDFFK 10.000 497 HCV 2a 56 63 10 A3 GMTSAFRVTR 36.000 498 HCV 2a 56 63 10 B7 APRLSPRICH 1.000 499 HCV 2a 56 53 10 B7 APRLSPRICH 1.000 500 HCV 2a 56 53 10 B7 APRLSPRICH 1.000 501 HCV 2a 56 108 10 B8 GPREDARVLL 12.000 501 HCV 2a 56 108 10 B_3501 GPREDARVLL 120.000 503 HCV 2a 56 77 10 B_3501 APREDSKDL 40.000 504 HCV 2a 56 62 10 B_3501 GPREDARVLL 120.000 505 HCV 2a 56 6 10 B_3501 GPREDARVLL 120.000 506 HCV 2a 56 6 10 B_3501 GPREDARVLL 120.000 507 HCV 2a 56 6 10 B_3501 GPREDARVLL 120.000 508 HCV 2a 56 2 10 B_3501 GSKDlVPGGL 30.000 509 HCV 2a 56 2 10 B_3501 SSASLGMKSM 10.000 500 HCV 2a 57 31 9 A_0201 WYTVDRTWI 29.137 510 HCV 2a 57 31 9 A_0201 WYTVDRTWI 29.137 510 HCV 2a 57 3 9 B7 VPRKDWVTV 40.000 511 HCV 2a 57 3 9 B7 VPRKDWVTV 40.000 512 HCV 2a 57 3 9 B7 VPRKDWVTV 40.000 513 HCV 2a 57 3 9 B7 VPRKDWVTV 40.000 514 HCV 2a 57 3 9 B7 VPRKDWVTV 40.000 515 HCV 2a 57 37 9 B7 SVLSRPVML 20.000 516 HCV 2a 57 37 9 B7 SVLSRPVML 20.000	488	HCV 2a	56	40	9	B_3501	DPFKVERGL	
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501       HCV 2a       56       4       10       B7       ASTGMKSMDL       12.000         502       HCV 2a       56       108       10       B8       GPREDARVLL       24.000         503       HCV 2a       56       108       10       B_3501       GPREDARVLL       120.000         504       HCV 2a       56       77       10       B_3501       APHENGSKDL       40.000         505       HCV 2a       56       82       10       B_3501       GSKD1VPGGL       30.000         506       HCV 2a       56       2       10       B_3501       SSASLGMKSM       10.000         507       HCV 2a       56       64       10       B_4403       MTSAFRVTRY       13.500         508       HCV 2a       57       31       9       A_0201       TMAPKRPRV       50.232         509       HCV 2a       57       22       9       A_0201       VTSRPVMLT       29.137         510       HCV 2a       57       8       9       A_0201       WVTVDRTWI       23.096         511       HCV 2a       57       3       9       B7       VPRKDWVTV       40.000         513	499	HCV 2a	56	77	10	B7	APHEHGSKDL	
501       HCV 2a       56       108       10       B8       GPREDARVLL       24.000         503       HCV 2a       56       108       10       B_3501       GPREDARVLL       120.000         504       HCV 2a       56       77       10       B_3501       APHENGSKDL       40.000         505       HCV 2a       56       82       10       B_3501       GSKD1VPGGL       30.000         506       HCV 2a       56       2       10       B_3501       SSAStGMKSM       10.000         507       HCV 2a       56       64       10       B_4403       MTSAFRVTRY       13.500         508       HCV 2a       57       31       9       A_0201       TMAPKRPRV       50.232         509       HCV 2a       57       22       9       A_0201       VISRPVMLT       29.137         510       HCV 2a       57       8       9       A_0201       WVTVDRTWI       23.096         511       HCV 2a       57       3       9       B7       VVPRKDWVTV       40.000         513       HCV 2a       57       21       9       B7       SVLSRPVML       20.000         514	500	HCV 2a	56	53	10	в7	APRLsPRLRA	
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504       HCV 2a       56       77       10       B_3501       APHEHGSKDL       40.000         505       HCV 2a       56       82       10       B_3501       GSKD1VPGGL       30.000         506       HCV 2a       56       2       10       B_3501       SSAStGMKSM       10.000         507       HCV 2a       56       64       10       B_4403       MTSAfRVTRY       13.500         508       HCV 2a       57       31       9       A_0201       TMAPKRPRV       50.232         509       HCV 2a       57       22       9       A_0201       VLSRPVMLT       29.137         510       HCV 2a       57       8       9       A_0201       WVTVDRTWI       23.096         511       HCV 2a       57       27       9       A3       VMLTTMAPK       45.000         512       HCV 2a       57       3       9       B7       VPRKDWVTV       40.000         514       HCV 2a       57       21       9       B7       SVLSRPVML       20.000         514       HCV 2a       57       33       9       B_3501       APKRPRVCW       30.000	502	HCV 2a	56	108	10	B8	<del>-</del>	
504       HCV 2a       56       82       10       B_3501       GSKD1VPGGL       30.000         506       HCV 2a       56       2       10       B_3501       SSASLGMKSM       10.000         507       HCV 2a       56       64       10       B_4403       MTSAFRVTRY       13.500         508       HCV 2a       57       31       9       A_0201       TMAPKRPRV       50.232         509       HCV 2a       57       22       9       A_0201       VVSRPVMLT       29.137         510       HCV 2a       57       8       9       A_0201       WVTVDRTWI       23.096         511       HCV 2a       57       27       9       A3       VMLTTMAPK       45.000         512       HCV 2a       57       3       9       B7       VPRKDWVTV       40.000         513       HCV 2a       57       21       9       B7       SVLSRPVML       20.000         514       HCV 2a       57       33       9       B_3501       APKRPRVCW       30.000	503	HCV 2a	56	108	10	B_3501	_	
506       HCV 2a       56       2       10       B_3501       SSASLGMKSM       10.000         507       HCV 2a       56       64       10       B_4403       MTSAfRVTRY       13.500         508       HCV 2a       57       31       9       A_0201       TMAPKRPRV       50.232         509       HCV 2a       57       22       9       A_0201       VLSRPVMLT       29.137         510       HCV 2a       57       8       9       A_0201       WVTVDRTWI       23.096         511       HCV 2a       57       27       9       A3       VMLTTMAPK       45.000         512       HCV 2a       57       3       9       B7       VPRKDWVTV       40.000         513       HCV 2a       57       21       9       B7       SVLSRPVML       20.000         514       HCV 2a       57       33       9       B_3501       APKRPRVCW       30.000	504	HCV 2a	56	77	10			
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	515	HCV 2a	. 57	3	9	B_3501	A EKKDMA.I.A	10.000

516	HCV 2a	57	20	9	B_3501	CSVLSRPVM	10.000
517	HCV 2a	57	22	10	A_0201	VLSRpVMLTT	29.137
518	HCV 2a	57	23	10	В7	LSRPvMLTTM	10.000
519	HCV 2a	57	33	10	В8	APKRpRVCWA	16.000
520	HCV 2a	57	23	10	В_3501	LSRPvMLTTM	30.000
521	HCV 2a	58			_	no hits	
522	HCV 2a	59	12	9	A_0201	TMTFFSIGL	58.628
	HCV 2a	59	21	9	A_0201	KMIGSTATA	12.558
523	HCV 2a	59	27	9	в7	ATAKSRRPL	18.000
524	HCV 2a	59	28	9	в8	TAKSRRPLA	16.000
525	HCV 2a	59	33	9	в_3501	RPLAAQSDI	16.000
526	HCV 2a	59	21	10	A3	KMIGsTATAK	135.000
527	HCV 2a	59	9	10	в7	APQTmTFFSI	24.000
528	HCV 2a	59	26	10	в7	TATAKSRRPL	18.000
529	HCV 2a	59	11	10	в7	QTMTfFSIGL	12.000
530	HCV 2a	59	28	10	в8	TAKSTRPLAA	16.000
531	HCV 2a	60	16	10	в7	MPSRpPRACM	45.000
532	HCV 2a	60	16	10	в_3501	MPSRpPRACM	40.000
533	HCV 2a	60	1	10	B_3501	MSNTtPGQNM	10.000
534	HCV 2a	61	1	Д. О	5_0002	no hits	
535	HCV 2a	62	8	9	A_0201	KMTKYRKPL	53.999
536 =27	HCV 2a	62	133	9	A_0201	KLHAAVSLC	39.992
537 538	HCV 2a	62	104	9	A_0201	KMAHSVVEC	28.883
539	HCV 2a	62	1	9	A24	MYQAATKKM	41.250
540	HCV 2a	62	11	9	A24	KYRKPLQLA	12.000
541	HCV 2a	62	17	9	A3	QLAALAACK	20.000
542	HCV 2a	62	82	9	A3	TIFWWRWSR	18.000
543	HCV 2a	62	76	9	A3	YMYCTSTIF	10.000
544	HCV 2a	62	126	9	в7	SORSPRVKL	90.000
545	HCV 2a	62	143	9	в7	IPPTYILIL	80.000
546	HCV 2a	62	112	9	в7	CNRGDSWLL	40.000
547	HCV 2a	62	129	9	в7	SPRVKLHAA	20.000
548	HCV 2a	62	129	9	в8	SPRVKLHAA	16.000
549	HCV 2a	62	51	9	в8	SARRRNKST	16.000
550	HCV 2a	62	70	9	B_3501	RAGDRPYMY	24.000
551	HCV 2a	62	143	9	B_3501	TPPTYILIL	20000
552	HCV 2a	62	4	9	B_4403	AATKKMTKY	20.250
553	HCV 2a	62	98	9	B_4403	SEKEQGKMA	12.000
554	HCV 2a	62	110	9	B_4403	VECNRGDSW	12.000
555	HCV 2a	62	139	10	A_0201	SLCSiPPTYI	57.380
556		62	75	10	A24	PYMYCTSTIF	15.000
557		62	125	10	A24	KSQRsPRVKL	13.200
558	HCV 2a	62	11	10	A24	KYRKpLQLAA	12.000
559	HCV 2a	62	68	10	в7	FVRAgDRPYM	75.000
560	HCV 2a	62	129	10	B7	SPRVkLHAAV	40.000
561	HCV 2a	62	131	10	<b>B</b> 7	RVKLhAAVSL	20.000
562	HCV 2a	62	9	10	В8	$\mathtt{MTKYrKPLQL}$	80.000
563	HCV 2a	62	123	10	В8	SSKSqRSPRV	12.000
564	HCV 2a	62	74	10	B_3501	RPYMyCTSTI	16.000
565			129	10	B_3501	SPRVkLHAAV	12.000
566			138	10	B_3501	VSLCsIPPTY	10.000
567			125	10	B_3501	KSQRsPRVKL	10.000
568			3	10	B_4403	QAATKKMTKY	20.250
569			30	9	A_0201	VLFNRKTSV	437.482

570	HCV 2a	63	9	9	A_0201	VLVKPVEFI	109.935
571	HCV 2a	63	6	9	в7	APQVLVKPV	12.000
572	HCV 2a	63	24	9	B_3501	DPRGGRVLF	60.000
573	HCV 2a	63	29	10	A_0201	RVLFnRKTSV	22.517
574	HCV 2a	63	8	10	A_0201	QVLVkPVEFI	20.936
575	HCV 2a	63	35	10	A_0201	KTSVsFSPHV	12.848
576	HCV 2a	63	31	10	A24	LFNRKTSVSF	15.000
577	HCV 2a	63	24	10	B8	DPRGgRVLFN	16.000
578	HCV 2a	64	7	9	A_0201	VLISWMFCL	484.457
579	HCV 2a	64	6	9	A_0201	LVLISWMFC	25.565
580	HCV 2a	64	7	9	A3	VLISWMFCL	12.150
581	HCV 2a	64	4	9	в7	LPLVLISWM	20.000
582	HCV 2a	64	4	9	B_3501	LPLVLISWM	40.000
583	HCV 2a	64	6	10	A_0201	LVLISWMFCL	156.843
584	HCV 2a	64	3	10	A_0201	QLPLvLISWM	62.845
585	HCV 2a	64	16	10	в7	EPGErRPAKL	80.000
586	HCV 2a	64	6	10	в7	LVLIsWMFCL	20.000
5 <b>87</b>	HCV 2a	64	16	10	B8	EPGErRPAKL	48.000
588	HCV 2a	64	19	10	в8	ERRPaKLSVL	16.000
589	HCV 2a	64	16	10	B_3501	EPGETRPAKL	40.000
590	HCV 2a	64	4	10	B_3501	LPLVLISWMF	20.000
591	HCV 2a	65	4	10	A3	TLAHaPCIEK	60.000
592	HCV 2a	66	3	9	A_0201	SMMTSGTRI	27.879
593	HCV 2a	67	19	9	A_0201	VMVPRMEQL	29.559
594	HCV 2a	67	39	9	A_0201	IMNIWAASI	12.809
595	HCV 2a	67	37	9	B_4403	GEIMNIWAA	20.000
596	HCV 2a	67	10	10	A_0201	IMSHaIRCPV	85.394
597	HCV 2a	67	26	10	A_0201	QLHScTNQWC	27.324
598	HCV 2a	67	21	10	в7	VPRMeQLHSC	20.000
599	HCV 2a	67	11	10	B_3501	MSHAiRCPVM	10.000
600	HCV 2a	67	37	10	B_4403	GEIMnIWAAS	20.000
601	HCV 2a	68	2	9	A_0201	SMCVRKPCV	50.232
602	HCV 2a	68	25	9	A_0201	IQHRDVFPT	17.134
603	HCV 2a	68	12	9	в7	APRCCTATF	12.000
604	HCV 2a	68	9	9	в7	CVRAPRCCT	11.250
605	HCV -2·a-	68 -				APRCCTATF	3.669
606	HCV 2a	68	24	10		GIQHrDVFPT	118.238
607	HCV 2a	69	1	9	A_0201	MLSLEQSLV	20.000
608		69	2	10		LSLEGSLVTM	27.454
609		70	14	9	A_0201	KEQPGRFPV IEKEQPGRF	40.000
610		70	12	9	B_4403	KEQPGRFPV	12.000
611		70	14	9	B_4403 A1	RSEVFLVVR	27.000
612		71	83	9	A_0201	RLVFLLVFL	270.234
613		71	121	9	A_0201 A_0201	FLVVRTPNL	98.267
614		71	87 5.6	9	A_0201 A24	GYPGFPQDL	360.000
615			56	9 9	A24	RLVFLLVFL	14.400
616			121		A24	RSLGMGWRL	12.000
617			69 110	9	B7	CGRRLVFLL	40.000
618			118		B7 B7	RVSMTLPTL	20.000
619			12	9	в7 В8	SCGRRLVFL	16.000
620			117	9	во В_3501	HPAQPSPSF	20.000
621			42	9	B_3501	RSLGMGWRL	10.000
622			69 04	9	B_4403	SEVFLVVRT	48.000
623	HCV 2a	. 71	84	9	₽_##03		

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624	HCV 2a	71	79	10	A_0201	RGWDrSEVFL	26.100
625	HCV 2a	71	114	10	A_0201	NLTScGRRLV	13.910
626	HCV 2a	71	86	10	A24	VFLVvRTPNL	30.000
627	HCV 2a	71	8	10	A24	KPHVrVSMTL	11.200
628	HCV 2a	71	51	10	A24	PYRGqGYPGF	10.000
629	HCV 2a	71	70	10	A3	SLGMgWRLPR	24.000
630	HCV 2a	71	89	10	в7	VVRTpNLGPL	200.000
631	HCV 2a	71	8	10	в7	KPHVrVSMTL	80.000
632	HCV 2a	71	77	10	в7	LPRGwDRSEV	60.000
633	HCV 2a	71	19	10	в7	TLRD1CRGSL	60.000
634	HCV 2a	71	64	10	в7	LPVErRSLGM	20.000
635	HCV 2a	71	35	10	в7	EPRGdRSHPA	20.000
636	HCV 2a	71	2	10	в7	YPMRsAKPHV	12.000
637	HCV 2a	71	35	10	в8	EPRGdRSHPA	32.000
638	HCV 2a	71	19	10	В8	TLRD1CRGSL	12.000
639	HCV 2a	71	64	10	B_3501	LPVErRSLGM	80.000
640	HCV 2a	71	8	10	B_3501	KPHVrVSMTL	40.000
641	HCV 2a	71	6	10	B_3501	SAKPhVRVSM	18.000
642	HCV 2a	71	77	10	B_3501	LPRGwDRSEV	18.000
643	HCV 2a	71	66	10	B_4403	VERRSLGMGW	12.000

Table 4g 2b (1-3)

No	Strai	n	ORF	Start	AA	HLA	Peptide sequence	Score
1	HCV 2		1	15	9	A_0201	LLSSRRKRL	36,32
			1	17	9	в7	SSRRKRLAM	15
2	HCV 2		1	2	9	в7	GATLRHESL	12
3			1	17	9	в8	SSRRKRLAM	20
4	HCV 2		1	2	9	в8	GATLRHESL	16
5	HCV 2			14	10	в8	ELLSSRRKRL	16
6	HCV 2		1		9	B_3501	SSRRKRLAM	30
7	HCV 2		1	17		_	LSSRRKRLAM	10
8	HCV 2		1	16	10 9	B_3501 A_0201	VVLPISWGT	30,76
9	HCV 2		2	43		A_0201 A_0201	VLPISWGTSL	36,32
1.0	HCV 2		2	44	10	A_0201 A_0201	LLGAPATPGI	17,74
11	HCV 2		2	20	10	A_0201 A_0201	SLSLaPLSEA	11,43
12	HCV 2		2	52	10	_	LPISWGTSL	80
13	HCV 2		2	45	9	B7	CPLAGLVLL	80
14	HCV 2		2	13	9	B7		24
15	HCV 2		2	62	9	B7	SPELWHTVL	240
16	HCV 2	2b	2	56	10	B7	APLSEASPEL	
17	HCV 2	2b	2	6	10	в7	AVGQVGSCPL	60
18	HCV :	2b	2	9	10	в7	QVGSCPLAGL	30
19	HCV :	2b	2	61	10	в7	ASPELWHTVL	12
20	HCV :	2b	2	45	9	B_3501	LPISWGTSL	20
21	HCV	2b	2	13	9	в_3501	CPLAGLVLL	20
22	HCV	2b	2	56	10	B_3501	APLSEASPEL	20
23	HCV	2b	2	61	10	B_3501	ASPELWHTVL	10
24	HCV	2b	2	59	10	B_4403	SEASPELWHT	24
25	HCV	2b	2	1	10	B_4403	METRVAVGQV	18
26	HCV	2b	3	37	9	A1	ATTPLMIAR	12,5
27	HCV	2b	3	53	9	A_0201	SLTQFSIFL	446,47
28	HCV	2b	3	11	9	A_0201	FLSSYLLFC	289,09
29	HCV	2b	3	9	9	A_0201	ALFLSSYLL	79,04
30	HCV	2b	3	4	9	A_0201	GIYPVALFL	51,7
 31	HCV	2b	3	55	9-	A_0201		49,57
32	HCV	2b	3	16	9	A_0201	LLFCRALQC	31,25
33	HCV	2b	3	35	9	A_0201	ALATTPLMI	10,43
34	HCV	2b	3	8	9	A_0201	VALFLSSYL	10,26
35	HCV	2b	3	15	10	A_0201		84,56
36	HCV	2b	3	27	10	A_0201		30,56
37	HCV	2b	3	52	10	A_0201		10,78
38	HCV	2b	3	1.4	9	A24	SYLLFCRAL	300
39	HCV	2b	3	10	9	A24	LFLSSYLLF	15
40	HCV	2b	3	3	10	A24	RGIYPVALFL	16,8
41	. HCV	2b	3	5	10	A24	IYPVALFLSS	10,8
42	HCV	2b	3	21	10	A3	ALQCQCLQWK	30
43	HCV	2b	3	9	10	A3	ALFLSSYLLF	20
44	HCV	2b	3	11	10	A3	FLSSYLLFCR	18
45	HCV	2b	3	69	10	A3	TMVPCAAGYK	13,5
46	HCV	2b	3	9	9	в7	ALFLSSYLL	12
47	HCV	2b	3	8	9	в7	VALFLSSYL	12
4.8	HCV	2b	3	1	10	в7	MQRGiYPVAL	40

- 100 -

						_		4.0
49	HCV 2		3	18	10	B7	FCRA1QCQCL	40
50	HCV 2		3	8	10	В7	VALF1SSYLL	12
51	HCV 2	2b	3	18	10	В8	FCRALQCQCL	16
52	HCV 2	2b	3	49	9	B_3501	SPGSSLTQF	20
53	HCV 2	2b	3	6	10	в_3501	YPVALFLSSY	40
54	HCV 2	2b	3	33	10	В_3501	TSALATTPLM	10
55	HCV 2	2b	3	3	9	B_4403	RGIYPVALF	15
56	HCV 2	2b	4	17	9	A_0201	ALLASLSLV	591,89
57	HCV 2	2b	4	7	9	в7	PARQWAGPL	12
58	HCV 2	2b	4	16	9	в7	GALLASLSL	12
59	HCV 2	2b	4	11	9	в7	WAGPLGALL	12
60	HCV 2	2b	4	13	10	в7	GPLGALLASL	80
61	HCV 2	2b	4	2	10	B_3501	RPPIPPARQW	20
62	HCV 2	2b	4	13	10	B_3501	GPLGALLASL	20
63	HCV 2	2b	5	27	9	A_0201	CLPAVGWMI	78,25
64	HCV :	2b	5	13	9	A_0201	FMPTNSTAL	70,97
65	HCV :	2b	5	20	9	A_0201	ALAAPSVCL	21,36
66	HCV :	2b	5	36	10	A_0201	FVSGGEPWNT	22,5
67	HCV :	2b	5	13	10	A_0201	FMPTNSTALA	16,51
68	HCV :	2b	5	12	10	A24	CFMPTNSTAL	36
69	HCV		5	44	9	в7	NTRPTSPML	40
70	HCV		5	20	9	в7	ALAAPSVCL	18
71	HCV		5	23	9	в7	APSVCLPAV	12
72	HCV		5	19	10	в7	TALAAPSVCL	18
73	HCV		5	28	9	B_3501	LPAVGWMIF	20
74	HCV		6			- <b>-</b> -	no hits	
75	HCV		7				no hits	
75 76	HCV		8	1	10	в7	MGRCGSSSFL	40
77	HCV		9	43	10	A1	HVETSCMASR	18
78	HCV		9	2	10	A1	TTSPPCQLGR	12,5
79	HCV		9	16	9	A1	GTWRLPWSL	18,47
	HCV		9	8	10	A1	QLGRPRVCGT	17,14
80			9	23	10	A1	SLSCSAQWRR	12
81	HCV		9	11	10	B7	RPRVCGTWRL	800
 82	HCV			11	10	в_3501	RPRVCGTWRL	120
83	HCV		9	44	10	B_4403	VETSCMASRF	60
84	HCV		_	44	10	D_4403	no hits	
85	HCV		10	20	0	A_0201	GLVTRPWLA	37,26
86			11	32	9		GFSGrYITGL	20
87			11	24	10	A24	HLFRGFSGR	60
88			11	20	9	A3		18
89			11	20	10	A3	HLFRGFSGRY	120
90			11	51	10	B7	AQRGTSWDGL	
91			11	1	9	B_3501	MSRPGRSRF	15 10
92			11	49	9	B_3501	TPAQRGTSW	
93			11	10	9	B_3501	CPPSHNPSW	10 152 77
94			12	26	9	A_0201	ALGDTPWAC	152,77
95			12	65	9	A_0201	FLTTARHQL	98,27
96		2b	12	58	9	A_0201	SLDGRPVFL	47
97	HCV	2b	12	47	9	A_0201	LLTSSRLNL	36,32
98	HCV	2b	12	76	9	A_0201	KLTRWATCT	26,08
99	HCV	2b	12	46	10	A_0201	NLLTSSRLNL	79,04
10	00 HCV	2b	12	58	10	A_0201	SLDGRPVFLT	39,76

- 101 -

101	HCV	2b	12	65	10	A_0201	FLTTARHQLC	22,85
102	HCV	2b	12	57	10	A_0201	TSLDGRPVFL	11,64
103	HCV	2b	12	64	10	A24	VFLTTARHQL	30
104	HCV	2b	12	40	9	в7	APGVWPNLL	240
105	HCV	2b	12	19	9	B7	HPEDPCSAL	36
	HCV		12	4	9	B7	GVHCCRQGL	30
	HCV		12	96	9	В7	LPHIPVRGI	12
108	HCV	2b	12	39	9	в7	CAPGVWPNL	12
	HCV		12	88	9	в7	VAGRAPRSL	12
110	HCV	2b	12	92	10	В7	APRSLPHIPV	180
111	HCV	2b	12	68	10	в7	TARHQLCPKL	120
	HCV		12	44	10	в7	WPNLLTSSRL	80
	HCV		12	50	10	B7 _	SSRLNLSTSL	40
	HCV		12	87	10	в7	QVAGRAPRSL	20
	HCV		12	39	10	B7 _	CAPGVWPNLL	12
	HCV		12	68	10	B7 _	TARHQLCPKL	16
	HCV		12	74	10	В7	CPKLTRWATC	16
118	HCV	2b	12	40	9	B_3501	APGVWPNLL	20
119	HCV	2b	12	19	9	B_3501	HPEDPCSAL	12
120	HCV	2b	12	57	9	B_3501	TSLDGRPVF	10
121	HCV	2b	12	44	10	В_3501	WPNLLTSSRL	20
	HCV		12	50	10	B_3501	SSRLNLSTSL	15
123	HCV	2b	12	92	10	B_3501	APRSLPHIPV	12
	HCV		12	57	10	B_3501	TSLDGRPVFL	10
125	HCV	2b	12	35	9	в_4403	SERPCAPGV	24
126	HCV	2b	12	35	10	B_4403	SERPCAPGVW	72
127	HCV	2b	13	33	10	A1	ASEQSLTRLR	13,5
128	HCV	2b	13	37	9	A_0201	SLTRLRPQV	69,55
129	HCV	2b	13	24	9	A_0201	IQWTLPPSL	30,56
130	HCV	2b	13	38	9	В7	LTRLRPQVL	40
	HCV		13	13	9	в7 	APMISSSAT	18
	HCV		13	20	9	B7	ATSAIQWTL	12
	HCV		13	19	11	B7	SATSAaIQWTL	12
	HCV		13	23	10	B7	AIQWTLPPSL	12
	HCV		13	32	10	B7	LASEQSLTRL	80
		2b		38	9	B8	LTRLRPQVL	
	HCV		13	42	9	B_3501	RPQVLGWWF	40
	HCV		13	7	10	B_4403	MEAAQPAPMI	12 79,04
	HCV		14	5	9	A_0201	SLFMARLSL	12
	HCV		14	4	10	A24	RSLFMARLSL	120
	. HCV		14	2	10	B7	RARSLFMARL	18
	HCV		14	2	10	B_3501	RARSLFMARL	10
	HCV		14	4	10	B_3501	RSLFMARLSL	50,23
	HCV		15	12	9	A_0201 A_0201	SMPSPTTGV SQQPFGAWA	10,53
	HC/		15	3	9	B7	QPFGAWASM	20
	HCI		15	5	9			30
	HCV		15	19	10	B7	GVSTsPLYQL	40
	HC/		15	5	9	В_3501	QPFGAWASM	-20
	HCV		16	1	10	3 0301	no hits	26,23
	HC7		17	1	10		MMPGQLGTSL	26,23 80
	L HCV		17	2	9	B7	MPGQLGTSL	
152	2 HC	/ 2b	17	2	9	B_3501	MPGQLGTSL	20

- 102 -

<b>153</b> HCV 2b	18	5	10	в7	SPRRSKEEIT	20
	18	5	10	в7	SPRRSKEEIT	16
154 HCV 2b		5	9	B_3501	SPRRSKEEI	24
155 HCV 2b	18		10	B_3501	RSKEEITLRI	24
156 HCV 2b	18	8		B_3301	SPRRSKEEI	80.000
157 HCV 2b	18	5	9	A3	LMRWkNAPPK	20
158 HCV 2b	19	17	10			15
159 HCV 2b	19	4	10	A3	WLWP1TRKSY	12
160 HCV 2b	19	29	10	A3	SLRKGSGWRR	20
161 HCV 2b	19	6	9	B7	WPLTRKSYM	12
162 HCV 2b	19	22	9	B7	NAPPKPPSL	40
163 HCV 2b	19	8	10	B7	LTRKSYMRPL	16
164 HCV 2b	19	22	9	B8	NAPPKPPSL	40
165 HCV 2b	19	6	9	B_3501	WPLTRKSYM	12,67
166 HCV 2b	20	4	9	A_0201	LLTTWRSLT	80
167 HCV 2b	20	2	10	B7	LPLLTTWRSL	20
168 HCV 2b	20	2	10	B_3501	LPLLtTWRSL	13.748
<b>169</b> HCV 2b	21	6	10	A_0201	WMPTfSWEAM	
170 HCV 2b	21	6	9	A_0201	WMPTFSWEA	470.387
<b>171</b> HCV 2b	21	7	9	в7	MPTFSWEAM	20.000
<b>172</b> HCV 2b	21	7	9	B_3501	MPTFSWEAM	40.000
173 HCV 2b	22				no hits	10 500
174 HCV 2b	23	70	9	A1	QRDPLPLPR	12.500
<b>175</b> HCV 2b	23	91	9	A_0201	GLQSPIKRI	23.995
176 HCV 2b	23	100	9	A_0201	LLSAAPCHT	12.668
177 HCV 2b	23	8	9	A24	RWQTKCSAL	12.000
178 HCV 2b	23	18	10	A24	KTPMtPVTPL	12.000
179 HCV 2b	23	19	9	В7	TPMTPVTPL	360.000
180 HCV 2b	23	80	9	в7	SVRSSTRTL	200.000
181 HCV 2b	23	84	9	в7	STRTLSRGL	40.000
182 HCV 2b	23	35	9	в7	ASSSPLARL	18.000
183 HCV 2b	23	22	9	в7	TPVTPLGRI	12.000
184 HCV 2b	23	55	10	в7	LPLRgSRGTL	120.000
<b>185</b> HCV 2b	23	46	10	в7	QMRDhCPPCL	40.000
186 HCV 2b	23	59	10	B7	GSRGtLTWSL	40.000
<b>187</b> HCV 2b	23	76	10	в7	LPRGsVRSST	30.000
<b>188</b> HCV 2b	23	38	10	В7	SPLArLPLQM	20.000
<b>189</b> HCV 2b	23	34	10	в7	TASSSPLARL	18.000
<b>190</b> HCV 2b	23	19	9	в8	TPMTPVTPL	20.000
<b>191</b> HCV 2b	23	13	9	в8	CSALSKTPM	10.000
<b>192</b> HCV 2b	23	38	10	B8	SPLArLPLQM	40.000
<b>193</b> HCV 2b	23	55	10	В8	LPLRgSRGTL	20.000
<b>194</b> HCV 2b	23	59	10	в8	GSRGtLTWSL	15.000
<b>195</b> HCV 2b	24	7	9	A_0201	TLSGLPLRL	21.362
<b>196</b> HCV 2b	24	7	10	A_0201	TLSG1PLRLV	31.994
<b>197</b> HCV 2b	24	6	10	A24	RTLSgLPLRL	14.400
<b>198</b> HCV 2b	24	4	10	в7	SCRT1SGLPL	40.000
<b>199</b> HCV 2b	24	4	10	B8	SCRT1SGLPL	16.000
200 HCV 2b	25	11	9	B_4403	AEKSQLASS	12.000
<b>201</b> HCV 2b	25	11	10	B_4403	AEKSqLASSY	360.000
<b>202</b> HCV 2b	26	11	10	A_0201	SIFSsKLGEV	10.580
203 HCV 2b	27	21	9	A_0201	RLSGNLERL	24.075
<b>204</b> HCV 2b	27	4	9	в7	TPSHCTHTL	80.000

- 103 -

								00.000
	HCV 2		27	4	9	B_3501	TPSHCTHTL	20.000
206	HCV 2	2b	27	31	9	B_4403	LERGRVGRV	18.000
207	HCV 2	2b	28	1	9	A1	MPDPAYYSF	25
208	HCV 2	2b	28	6	9	A24	YYSFAYSYL	200
209	HCV 2	2b	28	5	10	A24	AYYSfAYSYL	200
210	HCV 2	2b	28	3	9	B_3501	DPAYYSFAY	40
211	HCV 2	2b	28	3	9	B_4403	DPAYYSFAY	27
212	HCV 2	2b	29				no hits	
213	HCV 2	2b	30				no hits	4.5
214	HCV 2	2b	31	4	9	A1	DAELVTNSY	45
215	HCV 2	2b	31	41	9	A_0201	GLFLHAGSV	33,46
216	HCV :	2b	31	37	10	A_0201	GIWLGLFLHA	10,77
217	HCV :	2b	31	32	9	A24	RPLGCGIWL	12
218	HCV :	2b	31	32	9	в7	RPLGCGIWL	80
219	HCV	2b	31	25	10	в7	GPGNCLRRPL	120
220	HCV	2b	31	21	10	в7	CSRVgPGNCL	60.000
221	HCV	2b	31	14	9	В8	DPRLRCSCS	16
222	HCV	2b	31	32	9	B_3501	RPLGCGIWL	40
223	HCV	2b	31	25	10	B_3501	GPGNcLRRPL	20
224	HCV	2b	31	21	10	B_3501	CSRVgPGNCL	15
225	HCV	2b	31	4	9	B_4403	DAELVTNSY	20,25
226	HCV	2b	31	3	10	B_4403	HDAELVTNSY	67,5
227	HCV	2b	32	2	9	A24	RYRPSSVGL	480
228	3 HCV	2b	32	9	9	A3	GLRAGLLLY	36
229	HCV	2b	32	7	9	в7	SVGLRAGLL	20
230	) HCV	2b	32	7	10	в7	SVGLRAGLLL	20
	L HCV		33				no hits	
	3 HCV		34				no hits	
	B HCV		35			- 0001	no hits	291,35
	4 HCV		36	41	9	A_0201	GMGGPPFPV	46,87
	5 HCV		36	1	9	A_0201	MLLLRPTGT	16,56
	6 HCV		36	40	10	A_0201	VGMGgPPFPV	37,5
	7 HCV		36	33	10	A24	CYEIHRKVGM AGRRQDLCM	30
	8 HCV		36	50	9	B7	FPVAGRRQDL	120
	9 HCV		36	47	10	B7	SPKHRGRAV	12
	0 HCV		36	17	9	в_3501 в_3501		40
	1 HCV		36	25	9			20
	2 HCV		36 37	34	,	D_4-05	no hits	
	3 HCV		38				no hits	
	4 HCV 5 HCV		39	14	9	A_0201	LLPGDRLHL	36,32
				13	10			79,04
	6 HCV			19	10			12,67
	7 HCV 8 HCV			7	9	н_одоц В7	GASRRGSLL	12
	9 HCV			7	9	в8	GASRRGSLL	16
	O HCV			,	,	20	no hits	
	1 HCV			7	9	A_0201		36,32
	2 HCV			13	9			14,46
	3 HCV			6	10			10,87
	4 HCV			20	9	B7	TVPGGTLHL	20
	55 HCV			31	10			30
	56 HCV			33	9	A_0201		18,38
4.	- acv	, 2D	42	55	,	10201		-

A	42	33	10	A 0201	OLLHRRALCA	18,38
257 HCV 2b					NLPHOLLHR	12
258 HCV 2b	42	29	9	A3	~	30
<b>259</b> HCV 2b	42	34	10	A3	LLHRrALCAK	
260 HCV 2b	42	22	9	в7	LPKHVAGNL	80
<b>261</b> HCV 2b	42	27	9	в7	AGNLPHQLL	18
262 HCV 2b	42	26	9	в7	VAGNLPHQL	12
263 HCV 2b	42	25	10	в7	HVAGnLPHQL	20
264 HCV 2b	42	26	10	в7	VAGN1 PHQLL	18
265 HCV 2b	42	22	9	в8	LPKHVAGNL	16
266 HCV 2b	42	22	9	в8	LPKHVAGNL	60
267 HCV 2b	42	2	10	B_3501	RSKHlGPRPL	30
<b>268</b> HCV 2b	43	33	9	A_0201	QLLHRRALC	18,38
269 HCV 2b	43	33	10	A_0201	QLLHrRALCA	18,38
270 HCV 2b	43	29	9	A3	NLPHQLLHR	12
<b>271</b> HCV 2b	43	34	10	A3	LLHRRALCAK	30
<b>272</b> HCV 2b	43	22	9	в7	LPKHVAGNL	80
<b>273</b> HCV 2b	43	27	9	в7	AGNLPHQLL	18
<b>274</b> HCV 2b	43	26	9	в7	VAGNLPHQL	12
<b>275</b> HCV 2b	43	25	10	в7	HVAGnLPHQL	20
<b>276</b> HCV 2b	43	26	10	в7	VAGNIPHQLL	18
277 HCV 2b	43	22	9	в8	LPKHVAGNL	16
278 HCV 2b	43	22	9	B_3501	LPKHVAGNL	60
<b>279</b> HCV 2b	43	2	10	B_3501	RSKHlGPRPL	30
280 HCV 2b	44				no hits	
281 HCV 2b	45	2	10	в7	SVVQpPGPPL	30
282 HCV 2b	45	3	9	в7	VVQPPGPPL	30

Table 4h 2b (4-6)

No.	Strain	ORF	Start	AA	HLA	Peptide sequence	Score
1	HCV 2b	1	2	9	A_0201	RLTDLSQLA	20.369
2	HCV 2b	1	15	10	A1	KMEPprkeek	90.000
3	HCV 2b	1	2	10	A_0201	RLTDLSQLAV	285.163
4	HCV 2b	1	15	10	A3	KMEPpRKEEK	90.000
5	HCV 2b	2	13	9	A_0201	FQLWPAGLV	15.603
6	HCV 2b	2	7	9	A_0201	RQAHVAFQL	12.562
7	HCV 2b	2	12	9	A24	AFQLWPAGL	30.000
8	HCV 2b	2	7	9	A24	RQAHVAFQL	11.200
9	HCV 2b	2	3	9	В8	AMRRRQAHV	12.000
10	HCV 2b	3				no hits	
11	HCV 2b	4				no hits	
12	HCV 2b	5	21	9	A24	TFSSWSSTL	20.000
13	HCV 2b	5	55	9	A24	RTQFGSHRL	12.000
14	HCV 2b	5	22	9	B_3501	FSSWSSTLM	10.000
15	HCV 2b	5	50	9	B_3501	RSPWSRTQF	10.000
16	HCV 2b	5	17	9	B_3501	VPVGTFSSW	10.000
17	HCV 2b	5	14	9	B_4403	REVVPVGTF	240.000
18	HCV 2b	5	1	10	В7	MSRSqEGCSL	40.000
19	HCV 2b	5	12	10	в7	GPREvVPVGT	20.000
20	HCV 2b	5	30	10	в7	MVQKaHDHPL	20.000
21	HCV 2b	5	1	10	B_3501	MSRSqEGCSL	22.500
22	HCV 2b	5	12	10	B_3501	GPREvVPVGT	12.000
23	HCV 2b	5	14	10	B_4403	REVVpVGTFS	18.000
24	HCV 2b	6				no hits	
25	HCV 2b	7	1	10	B_3501	MPLRdFPVRW	10.000
26	HCV 2b	8	13	9	A_0201	VLWPVVGGL	90.126
27	HCV 2b	8	5	9	A_0201	WLAVCPGPV	41.592
28	HCV 2b	8	6	9	в7	LAVCPGPVL	18.000
29	HCV 2b	8	13	10	A_0201	VLWPvVGGLV	127.579
30_	HCV 2b	8	5	10	A_0201	WLAVCPGPVL	40.289
31	HCV 2b	8	8	10	A_0201	VCPGpVLWPV	13.314
32	HCV 2b	9	10	9	в7	APSQFSLYV	12.000
33	HCV 2b	9	9	10	A_0201	IAPSqFSLYV	34.322
34	HCV 2b	9	7	10	В7	CPIApSQFSL	80.000 20.000
35	HCV 2b	9	7	10	B_3501	CPIApSQFSL	21.000
36	HCV 2b	10	10	9	A24	RYLSVRAGS	30.000
37	HCV 2b	10	26	9	A3	QLVACCCQK	80.000
38	HCV 2b	10	4	9	B7	GPWCSSRYL	20.000
39	HCV 2b	10	4	9	B_3501	GPWCSSRYL	80.000
40	HCV 2b	10	18	10		SPPGkFGAQL SPPGkFGAQL	20.000
41	HCV 2b	10	18	10	B_3501	no hits	201000
42	HCV 2b	11				no hits	
43	HCV 2b	12				no hits	
44	HCV 2b	13 14	2	9	в7	WPRGPLCPL	1.200.000
45 46	HCV 2b	14	2	9	B8	WPRGPLCPL	16.000
46 47	HCV 2b	14 14	2	9	B_3501	WPRGPLCPL	60.000
48	HCV 2b	15	2	,	5_5501	no hits	
-10	HCV 2b	40					

- 106 -

49	HCV 2b	16	20	9	A24	PYLPICSGL	50.400
50	HCV 2b	16	11	9	B_3501	AAVDSADPY	12.000
51	HCV 2b	16	14	9	B_3501	DSADPYPYL	10.000
52	HCV 2b	16	11	9	B_4403	AAVDSADPY	18.000
53	HCV 2b	16	13	9	B_4403	VDSADPYPY	15.000
54	HCV 2b	16	12	10	A1	AVDSaDPYPY	50.000
55	HCV 2b	16	15	10	A1	SADPyPYLPI	25.000
56	HCV 2b	16	21	10	A_0201	YLPicSGLRV	319.939
57	HCV 2b	16	19	10	B7	YPYLpICSGL	80.000
58	HCV 2b	16	19	10	B_3501	YPYLpICSGL	20.000
59	HCV 2b	16	10	10	B_4403	SAAVdSADPY	18.000
60	HCV 2b	17	2	10	B7	LQRIYAPPPL	40.000
61	HCV 2b	18	3	9	в7	NATVCKGSL	12.000
62	HCV 2b	18	10	10	A3	SLSGtWGSTR	18.000
63	HCV 2b	19	6	9	В7	NASSTASCL	12.000
64	HCV 2b	20				no hits	
65 <sup>.</sup>	HCV 2b	21	8	9	A1	GLEAVRHSY	45.000
66	HCV 2b	21	8	9	A3	GLEAVRHSY	18.000
67	HCV 2b	21	1	9	в7	MALPGGGGL	12.000
68	HCV 2b	22	2	10	в7	ICREtSYGTL	40.000
69	HCV 2b	22	2	10	B8	ICREtSYGTL	24.000
70	HCV 2b	23				no hits	10.240
71	HCV 2b	24	24	9	A_0201	VSLSFVFTA	10.340
72	HCV 2b	24	18	9	в7	LASGNGVSL	12.000
73	HCV 2b	24	25	10	A_0201	SLSFVFTAQL	81.177
74	HCV 2b	24	23	10	A_0201	GVSLsFVFTA	22.036
75	HCV 2b	24	17	10	A_0201	RLASgNGVSL	21.362
76	HCV 2b	25	100	9	A_0201	WMMLPSQEL	262.591
77	HCV 2b	25	88	9	A_0201	IMTIRTQIV	35.012 26.228
78	HCV 2b	25	51	9	A_0201	IMAGRSSGL	22.853
79	HCV 2b	25	168	9	A_0201	YLVIASVKA	16.588
80	HCV 2b	25	101	9	A_0201	MMLPSQELT	16.258
81	HCV 2b	25	121	9	A_0201	VIGVVGSLV	16.219
82	HCV 2b	25	116	9	A_0201	SQAARVIGV SKLRFWFRV	13.392
83	HCV 2b	25	68	9	A_0201		16.800
84	HCV 2b	25	120	9	A24	RVIGVVGSL	12.000
85	HCV 2b	25	161	9	A24 A24	RSPGGAEYL KYRRRPRES	11.000
86	HCV 2b	25	131	9	A24 A3	GLTEYTAPY	54.000
87	HCV 2b	25	58	9	A3	GVVGSLVKK	20.250
88	HCV 2b	25	123 208	9 9	в7	AALHAARAL	36.000
89	HCV 2b	25 25	120	9	в7	RVIGVVGSL	20.000
90	HCV 2b	25	95	9	в7	IVGAYWMML	20.000
91 92	HCV 2b	25	169	9	в7	LVIASVKAL	20.000
93	HCV 2b	25	4	9	в7	EALTARARL	18.000
94	HCV 2b	25	100	9	в7	WMMLPSQEL	18.000
95	HCV 2b	25	7	9	в8	TARARLFHA	16.000
96	HCV 2b		, 64	9	B_3501	APYISKLRF	20.000
97	HCV 2b		180	9	B_3501		10.000
98	HCV 2b		161	9	B_3501		10.000
99	HCV 2b		183	9	B_3501		10.000
100	HCV 2b		44	9	B_3501		10.000
2.00	**C^ \ \_D	2.3					

- 107 -

				_			00 000
101	HCV 2b	25	137	9	B_4403	RESSATDTF	90.000
102	HCV 2b	25	148	9	B_4403	QDVISSKSY	67.500
103	HCV 2b	25	82	9	B_4403	MEKKWVIMT	12.000
104	HCV 2b	25	166	9	B_4403	AEYLVIASV	12.000
105	HCV 2b	25	110	9	B_4403	GECLTVSQA	12.000
106	HCV 2b	25	145	9	B_4403	FEEQDVISS	12.000
107	HCV 2b	25	2	10	A1	MSEA1TARAR	13.500
108	HCV 2b	25	58	10	A_0201	GLTEYTAPYI	235.260
109	HCV 2b	25	168	10	A_0201	YLVIaSVKAL	226.014
110	HCV 2b	25	112	10	A_0201	CLTVsQAARV	69.552
111	HCV 2b	25	100	10	A_0201	WMMLpSQELT	44.885
112	HCV 2b	25	1	10	A_0201	MMSEaLTARA	25.008
113	HCV 2b	25	87	10	A_0201	VIMTIRTQIV	24.663
114	HCV 2b	25	78	10	A_0201	WASSMEKKWV	24.440
115	HCV 2b	25	50	10	A_0201	SIMAgRSSGL	10.868
116	HCV 2b	25	61	10	A24	EYTApYISKL	220.000
117	HCV 2b	25	65	10	A24	PYISKLRFWF	18.000
118	HCV 2b	25	131	10	A24	KYRRrPRESS	10.000
119	HCV 2b	25	176	10	в7	ALRFrSSSSL	120.000
120	HCV 2b	25	15	10	в7	ALRGGAPSFL	120.000
121	HCV 2b	25	7	10	в7	TARATLFHAL	120.000
122	HCV 2b	25	201	10	в7	IVGStIPAAL	20.000
123	HCV 2b	25	135	10	в7	RPRESSATDT	20.000
124	HCV 2b	25	208	10	B7	AALHaARALM	13.500
125	HCV 2b	25	50	10	в7	SIMAgRSSGL	12.000
126	HCV 2b	25	7	10	в8	TARALLFHAL	16.000
127	HCV 2b	25	135	10	в_3501	RPRESSATDT	24.000
128	HCV 2b	25	80	10	B_3501	SSMEkKWVIM	20.000
129	HCV 2b	25	28	10	B_3501	ATRESSWGEY	12.000
130	HCV 2b	25	162	10	B_3501	SPGGaEYLVI	12.000
131	HCV 2b	25	64	10	B_3501	APYISKLRFW	10.000
132	HCV 2b	25	182	10	B_3501	SSSLPWLSEM	10.000
133	HCV 2b	25	43	10	B_3501	ASSPCSLSIM	10.000
134	HCV 2b	25	3	10	B_4403	SEALTARARL	24.000
135	HCV 2b	25	57	10	В_4403		-18.000-
136	HCV 2b	25	53	10	B_4403	AGRSsGLTEY	13.500
137	HCV 2b	26	9	9	A24	KTPLARQRL	14.400
	HCV 2b	26	1	9	A3	MVFPMLVVK	22.500
138	HCV 2b	26	5	10	A3	MLVVkTPLAR	12.000
139		26	3	10	в7	FPMLvVKTPL	240.000
140	HCV 2b		3	10	в_3501	FPMLvVKTPL	20.000
141	HCV 2b	26	5	9	A_0201	VLMSLSVTV	437.482
142	HCV 2b	27			A_0201	YENPIGSFL	10.509
143	HCV 2b	27	21	9	A_0201 A24	SYENPIGSF	150.000
144	HCV 2b	27	20	9			60.000
145	HCV 2b	27	8	9	A3	SLSVTVESK FLLPQALRR	18.000
146	HCV 2b	27	28	9	A3		20.000
147	HCV 2b	27	37	9	B_3501	KSTRSAGEY	120.000
148	HCV 2b	27	13	9	B_4403	VESKQRVSY	90.000
149	HCV 2b	27	12	10		TVESKQRVSY	
150	HCV 2b	27	4	10		SVLMsLSVTV	22.517
151	HCV 2b	27	21	10			11.082
152	HCV 2b	27	20	10	A24	SYENPIGSFL	420.000

153	HCV 2b	27	19	10	B_3501	VSYEnPIGSF	10.000
154	HCV 2b	27	21	10	B_4403	YENPiGSFLL	12.000
155	HCV 2b	28	43	9	A_0201	WLTAPLDKL	110.747
156	HCV 2b	28	19	9	A_0201	FLAMAVVSI	110.379
157	HCV 2b	28	21	9	A_0201	AMAVVSIGV	50.232
158	HCV 2b	28	81	9	A_0201	ALTLEAARL	21.362
159	HCV 2b	28	6	9	A24	FFPPLAGSI	10.800
160	HCV 2b	28	55	9	в7	FAPNPYRDL	18.000
161	HCV 2b	28	72	9	в7	QASSTERSL	12.000
162	HCV 2b	28	81	9	в7	ALTLEAARL	12.000
163	HCV 2b	28	58	9	B_3501	NPYRDLAEW	15.000
164	HCV 2b	28	74	9	B_3501	SSTERSLAL	10.000
165	HCV 2b	28	84	9	B_4403	LEAARLTSC	18.000
166	HCV 2b	28	54	10	A24	SFAPnPYRDL	24.000
1.67	HCV 2b	28	41	10	A3	RMWLtAPLDK	200.000
168	HCV 2b	28	71	10	в7	AQASsTERSL	12.000
169	HCV 2b	28	11	10	в7	AGSIqNTSFL	12.000
170	HCV 2b	28	80	10	в7.	LALT1EAARL	12.000
171	HCV 2b	28	73	10	в7	ASSTeRSLAL	12.000
172	HCV 2b	28	46	10	B_3501	APLDkLRTSF	40.000
173	HCV 2b	28	35	10	B_3501	RSSHtDRMWL	15.000
174	HCV 2b	28	64	10	B_4403	AEWGgVNAQA	18.000
175	HCV 2b	29	2	9	B_3501	RAPVQEYDM	12.000
176	HCV 2b	30	5	9	в7	SPSEGGADL	80.000
177	HCV 2b	30	5	9	B_3501	SPSEGGADL	40.000
178	HCV 2b	30	42	9	B_3501	VSPEGCWTL	10.000
179	HCV 2b	30	33	10	A1	DSDPaSEAAV	15.000
180	HCV 2b	30	49	10	A_0201	TLSPpVSAPV	69.552
181	HCV 2b	30	41	10	A_0201	AVSPeGCWTL	14.019
182	HCV 2b	30	41	10	в7	AVSPeGCWTL	60.000
183	HCV 2b	30	22	10	в7	SPGSpSRGGM	30.000
184	HCV 2b	30	22	10	B_3501	SPGSpSRGGM	40.000
185	HCV 2b	30	7	10	B_4403	SEGGaDLAGS	18.000
186	HCV 2b	30	38	10	B_4403	SEAAVSPEGC	16.000
187	HCV 2b	31	74	9	A_0201	VMWDGSVNM	207.569
188	HCV 2b	31	31	9	A_0201		89.205
189	HCV 2b	31	80	9	A_0201	VNMEANTSV	11.709
190	HCV 2b	31	32	9	A_0201	QSYAVLWVV	10.275
191	HCV 2b	31	34	9	A_0201	YAVLWVVQV	10.220
192	HCV 2b	31	36	9	A3	VLWVVQVAF	15.000
193		31	56	9	в7	LACEGGDPL	12.000
194	HCV 2b	31	15	9	В7	SIRVTSPPM	49.874
195	HCV 2b	31	31	10	A_0201	SQSYaVLWVV	24.912
196		31	9	10	A_0201	ITLESDSIRV	24.000
197		31	43	10	A24	AFKDgADSWL	300.000
198		31	36	10	A3	VLWVvQVAFK	45.000
199		31	73	10		AVMWdGSVNM	40.000
200		31	2	10		ESRESRTITL	30.000
201		31	17	10		RVTSpPMKRL STMSqSYAVL	12.000
202			28	10		ESRESRTITL	240.000
203			2	10			30.000
204	L HCV 2b	31	2	10	B_3501	FONDOVITID	30.000

205	HCV 2b	31	14	10	B_3501	DSIRVTSPPM	10.000
206	HCV 2b	32	103	9	A_0201	SLLSKLVIV	242.674
207	HCV 2b	32	110	9	A_0201	IVSELNTCV	42.418
208	HCV 2b	32	11	9	A_0201	QVFGPVIFM	20.346
209	HCV 2b	32	30	9	в7	APHEHRVVM	90.000
210	HCV 2b	32	39	9	в7	TPVPAHTPL	80.000
211	HCV 2b	32	20	9	в7	VPKRTWPEM	20.000
212	HCV 2b	32	97	9	в7	SVIQACSLL	20.000
213	HCV 2b	32	100	9	В7	QACSLLSKL	12.000
214	HCV 2b	32	53	9	в8	EMKGRPGIL	160.000
215	HCV 2b	32	20	9	B_3501	VPKRTWPEM	120.000
216	HCV 2b	32	30	9	B_3501	APHEHRVVM	80.000
217	HCV 2b	32	57	9	B_3501	RPGILGSNF	40.000
218	HCV 2b	32	39	9	B_3501	$\mathtt{TPVPAHTPL}$	20.000
219	HCV 2b	32	111	10	A1	VSELnTCVTR	27.000
220	HCV 2b	32	11	10	A_0201	QVFGpVIFMV	300.383
221	HCV 2b	32	107	10	A_0201	KLVIVSELNT	26.082
222	HCV 2b	32	109	10	A_0201	VIVSeLNTCV	16.258
223	HCV 2b	32	65	10	A_0201	FADSqFLKSV	15.535
224	HCV 2b	32	27	10	A_0201	EMFApHEHRV	13.939
225	HCV 2b	32	46	10	A3	PLYPfWQEMK	45.000
226	HCV 2b	32	45	10	в7	TPLYpFWQEM	20.000
227	HCV 2b	32	20	10	B_3501	VPKRtWPEMF	60.000
228	HCV 2b	32	45	10	B_3501	TPLYpFWQEM	40.000
229	HCV 2b	32	39	10	B_3501	TPVPaHTPLY	40.000
230	HCV 2b	32	41	10	B_3501	VPAHtPLYPF	20.000
231	HCV 2b	32	4	10	B_3501	VPCHmFRQVF	20.000
232	HCV 2b	32	105	10	B_3501	LSKLVIVSEL	15.000
233	HCV 2b	32	67	10	B_3501	DSQFlksvRM	10.000
234	HCV 2b	32	112	10	B_4403	SELNTCVTRS	72.000
235	HCV 2b	32	39	10	B_4403	TPVPaHTPLY	18.000
236	HCV 2b	33	86	9	A_0201	MMFKRMVVL	91.513
237	HCV 2b	33	147	9	A_0201	CMAGCMSWA	45.388
238	HCV 2b	33	51	9	A_0201	ILPRPILPT	29.137
239	HCV 2b	33	125	9	A_0201	CMPLMKFHM	20.810
240	HCV 2b	33	11	9	A_0201	KIAGRRFTT	20.800
241	HCV 2b	33	166	9	A_0201	ILDLSISAI	16.317
242	HCV 2b	33	165	9	A_0201	SILDLSISA	10.363
243	HCV 2b	33	123	9	A24	RYCMPLMKF	220.000
244	HCV 2b	33	176	9	в7	CPSSMRAAL	120.000
245	HCV 2b	33	120	9	В7	SPARYCMPL	80.000
246	HCV 2b	33	91	9	B7 _	MVVLVGSGL	20.000
247	HCV 2b	33	52	9	B7 _	LPRPILPTA	20.000
248	HCV 2b	33	83	9	B7	HPPMMFKRM	20.000
249	HCV 2b	33	44	9	B7	PARTSTNIL	12.000
250	HCV 2b	33	159	9	B7	ACCERPSIL	12.000
251	HCV 2b	33	159	9	B8	ACCRRPSIL	16.000
252	HCV 2b	33	83	9	B_3501		40.000
253	HCV 2b	33	35	9	B_3501		24.000
254	HCV 2b		120	9	B_3501		20.000
255	HCV 2b		176	9	B_3501		
256	HCV 2b	33	163	9	B_3501	RPSILDLSI	16.000

257	HCV 2b	33	20	9	B_3501	SSTEGFSPL	10.000
258	HCV 2b	33	188	9	B_3501	SSISSKASY	10.000
259	HCV 2b	33	188	9	B_4403	SSISSKASY	30.000
260	HCV 2b	33	118	9	B_4403	VESPARYCM	12.000
261	HCV 2b	33	9	9	B_4403	GDKIAGRRF	11.250
262	HCV 2b	33	21	10	A1	STEGESPLMI	11.250
263	HCV 2b	33	166	10	A1	ILDLsISAIR	10.000
264	HCV 2b	33	86	10	A_0201	MMFKrMVVLV	726.706
265	HCV 2b	33	165	10	A_0201	SILD1SISAI	50.051
266	HCV 2b	33	147	10	A_0201	CMAGCMSWAC	26.910
267	HCV 2b	33	98	10	A_0201	GLVNaALKAI	23.995
268	HCV 2b	33	77	10	A_0201	AIWEaNHPPM	23.246
269	HCV 2b	33	51	10	A_0201	ILPRPILPTA	19.425
270	HCV 2b	33	93	10	A_0201	VLVGsGLVNA	19.425
271	HCV 2b	33	90	10	A_0201	RMVV1VGSGL	15.428
272	HCV 2b	33	16	10	A24	RFTTsSTEGF	20.000
273	HCV 2b	33	90	10	A24	RMVVlVGSGL	16.800
274	HCV 2b	33	175	10	A24	RCPSsMRAAL	12.000
275	HCV 2b	33	57	10	в7	LPTAaPTRPL	120.000
276	HCV 2b	33	126	10	B7	MPLMkFHMCL	80.000
277	HCV 2b	33	43	10	в7	YPARTSTNIL	80.000
278	HCV 2b	33	160	10	в7	CCRRPSILDL	40.000
279	HCV 2b	33	52	10	B <b>7</b>	LPRPiLPTAA	20.000
280	HCV 2b	33	120	10	в7	SPARYCMPLM	20.000
281	HCV 2b	33	158	10	в7	VACCTRPSIL	12.000
282	HCV 2b	33	30	10	B8	ILKATRAPEM	40.000
283	HCV 2b	33	158	10	в8	VACCTRPSIL	16.000
284	HCV 2b	33	160	10	в8	CCRRPSILDL	16.000
285	HCV 2b	33	120	10	B_3501	SPARyCMPLM	40.000
286	HCV 2b	33	43	10	B_3501	YPARTSTNIL	20.000
287	HCV 2b	33	57	10	B_3501	LPTAaPTRPL	20.000
288	HCV 2b	33	126	10	B_3501	MPLMkFHMCL	20.000
289	HCV 2b	33	20	10	в_3501	SSTEgFSPLM	20.000
290	HCV 2b	33	69	10	В_3501	KPVApAGGAI	16.000
291	HCV 2b	33	191	10	B_3501	SSKAsYKISL	15.000
292	HCV 2b	33	139	10	в_3501	CSILGHDDCM	10.000
293	HCV 2b	33	171	10	B_3501	ISAIrCPSSM	10.000
294	HCV 2b	33	187	10	B_3501	HSSIsSKASY	10.000
295	HCV 2b	33	79	10	B_4403	WEANhPPMMF	80.000
296	HCV 2b	33	105	10	B_4403	KAIIdATAGF	16.875
297	HCV 2b	34	2	9	В7	RPMMEMQPV	12.000
298	HCV 2b	34	2	9	B_3501	RPMMEMQPV	12.000
299	HCV 2b	35	7	9	A_0201	CMHVAIYFV	635.435
300	HCV 2b	35	11	9	A_0201	AIYFVTGWV	21.881
301	HCV 2b	35	30	9	A24	RYRRGVGPV	10.000
302	HCV 2b	35	36	9	B7	GPVSVGFSL	80.000
303	HCV 2b	35	27	9	B7	APKRYRRGV	18.000
304	HCV 2b	35	36	9	B_3501	GPVSVGFSL	20.000
305	HCV 2b	35	27	9	B_3501	APKRYRRGV	12.000
306	HCV 2b	35	51	9	B_3501	TSHEGGGAF	10.000
307	HCV 2b	35	6	10		ACMHVAIYFV	21.250
308	HCV 2b	35	7	10	A_0201	CMHVaIYFVT	19.198

WO 2004/011650 PCT/EP2003/008112

309	HCV 2b	35	30	10	A24	RYRRgVGPVS	14.000
310	HCV 2b	35	4	10	B_3501	RSACMHVAIY	20.000
311	HCV 2b	35	22	10	B_3501	ISLVtAPKRY	10.000
312	HCV 2b	35	4	10	B_4403	RSACmHVAIY	18.000
313	HCV 2b	35	22	10	B_4403	ISLVtAPKRY	13.500
314	HCV 2b	36				no hits	
315	HCV 2b	37				no hits	
316	HCV 2b	38	1	9	A1	MTESKSPVY	225.000
317	HCV 2b	38	8	9	A24	VYPVIRASV	10.500
318	HCV 2b	38	2	10	B_4403	TESKsPVYPV	12.000
319	HCV 2b	39	18	9	в7	NIRCLPPLM	10.000
320	HCV 2b	39	16	10	A_0201	WQNIrCLPPL	22.915
321	HCV 2b	39	13	10	A24	FFEWqNIRCL	30.000
322	HCV 2b	39	22	10	B_3501	LPPLmEARGI	12.000
323	HCV 2b	40	1	9	A_0201	MLAWGVVTV	271.948
324	HCV 2b	40	34	9	в7	MPRMVVAST	20.000
325	HCV 2b	40	13	9	в7	VAVARTTSL	12.000
326	HCV 2b	40	13	9	в8	VAVARTTSL	16.000
327	HCV 2b	40	6	10	A_0201	VVTVpGGVAV	10.346
328	HCV 2b	40	12	10	в7	GVAVaRTTSL	20.000
329	HCV 2b	40	28	10	в7	WSRTvPMPRM	15.000
330	HCV 2b	40	28	10	B_3501	WSRTVPMPRM	30.000
331	HCV 2b	40	40	10	B_3501	ASTEWHSSQM	20.000
332	HCV 2b	40	25	10	B_3501	VSAWSRTVPM	10.000
333	HCV 2b	41	1	9	A_0201	MLGLIPWAL	272.371
334	HCV 2b	42	9	9	A24	KSIDLATPL	17.280
335	HCV 2b	42	47	9	A3	GLGDSNAPR	12.000
336	HCV 2b	42	15	9	в7	TPLAHTAAL	80.000
337	HCV 2b	42	40	9	в7	DPLRVERGL	80.000
338	HCV 2b	42	52	9	в7	NAPRLSSFL	12.000
339	HCV 2b	42	9	9	B_3501	KSIDLATPL	20.000
340	HCV 2b	42	40	9	B_3501	DPLRVERGL	20.000
341	HCV 2b	42	15	9	B_3501	TPLAHTAAL	20.000
342	HCV 2b	42	36	9	B_3501	GPPDDPLRV	12.000
343	HCV 2b	42	56	9	B_3501	LSSFLRTGM	10.000
344	HCV 2b	42	51	9	B_4403	SNAPRLSSF	12.000
345	HCV 2b	42	47	10	A_0201	GLGDsNAPRL	87.586
346	HCV 2b	42	22	10	A_0201	ALNKPTACPL	21.362
347	HCV 2b	42	63	10	A3	GMTSaFRVTR	36.000
348	HCV 2b	42	53	10	в7	APRLSSFLRT	60.000
349	HCV 2b	42	22	10	B7	ALNKPTACPL	12.000 12.000
350	HCV 2b	42	14	10	B7	ATPLAHTAAL	135.000
351	HCV 2b	43	2	9	в7	APRRPRVC.	133.000
352	HCV 2b	44		•	7 0001	no hits	58.628
353	HCV 2b	45	12	9	A_0201	TMTFFSIGL	16.000
354	HCV 2b	45	28	9	B8	TARSRKPWA	
355	HCV 2b	45	9	10	B7	APHTmTFFSI	24.000
356	HCV 2b	45	11	10	B7	HTMTfFSIGL	12.000
357	HCV 2b	45	28	10	B8	TARSTKPWAA	16.000
358	HCV 2b	46	2	9	A_0201	VINSIWIYL	46.689
359	HCV 2b	46	9	9	A_0201	YLAPARCLT	34.279
360	HCV 2b	46	5	9	A_0201	SIWIYLAPA	13.040

- 112 -

361	HCV 2b	46	7	9	A_0201	WIYLAPARC	10.055
362	HCV 2b	46	8	9	A24	IYLAPARCL	300.000
363	HCV 2b	46	11	9	в7	APARCLTRV	12.000
364	HCV 2b	46	1	10	A_0201	MVINsIWIYL	29.711
365	HCV 2b	46	9	10	A3	YLAPaRCLTR	12.000
366	HCV 2b	46	1	10	в7	MVINsIWIYL	20.000
367	HCV 2b	47				no hits	
368	HCV 2b	48				no hits	
369	HCV 2b	49	13	9	A1	LAECKMMSF	45.000
370	HCV 2b	49	17	9	A_0201	KMMSFSSAA	176.565
371	HCV 2b	49	40	9	A3	ILASASNRK	20.000
372	HCV 2b	49	9	9	A3	ALAALAECK	20.000
373	HCV 2b	49	31	10	A_0201	MMSIqRHAQI	12.809
374	HCV 2b	49	22	10	B_3501	SSAAsAWPSM	10.000
375	HCV 2b	49	14	10	B_4403	AECKmMSFSS	12.000
376	HCV 2b	50				no hits	
377	HCV 2b	51	30	9	A_0201	VLFSRKTSV	437.482
378	HCV 2b	51	9	9	A_0201	VLVNPVPFI	224.357
379	HCV 2b	51	32	9	в7	FSRKTSVSL	40.000
380	HCV 2b	51	23	9	в7	QAPRGGLVL	12.000
381	HCV 2b	51	6	9	в7	APHVLVNPV	12.000
382	HCV 2b	51	24	9	В7	APRGGLVLF	12.000
383	HCV 2b	51	24	9	B_3501	APRGGLVLF	60.000
384	HCV 2b	51	32	9	B_3501	FSRKTSVSL	15.000
385	HCV 2b	51	29	10	A_0201	LVLFsRKTSV	38.280
386	HCV 2b	51	10	10	A_0201	LVNPvPFIQV	19.657
387	HCV 2b	51	31	10	A24	LFSRkTSVSL	20.000
388	HCV 2b	51	20	10	в7	QPNQaPRGGL	180.000
389	HCV 2b	51	24	10	в7	APRGgLVLFS	12.000
390	HCV 2b	51	20	10	B_3501	QPNQaPRGGL	20.000
391	HCV 2b	52	32	9	A_0201	GQPELLNLL	20.425
392	HCV 2b	52	10	9	A24	SYSKVPHPI	70.000
393	HCV 2b	52	32	9	A24	GQPELLNLL	10.368
394	HCV 2b	52	3	9	B_4403	STLVTLVSY	18.000
395	HCV 2b	52	5	10	A_0201	LVTLvSYSKV	15.519
396	HCV 2b	52	31	10	A24	SGQPeLLNLL	10.368
397	HCV 2b	52	4	10	A3	TLVT1VSYSK	135.000
398	HCV 2b	52	30	10	B_3501	RSGQpELLNL	15.000
399	HCV 2b	52	2	10	B_3501	SSTLVTLVSY	10.000
400	HCV 2b	53	40	9	A_0201	KLPTVRPTV	243.432
401	HCV 2b	53	6	9	A_0201	KLSLQLRAV	111.979
402	HCV 2b	53	16	9	A_0201	FMCQLPLVL	29.098
403	HCV 2b	53	22	9	A_0201	LVLINWTFC	25.565
404	HCV 2b	53	24	9	A_0201	LINWTFCWA	12.135
405	HCV 2b	53	12	9	A24	RAVRFMCQL	12.000
406	HCV 2b	53	12	9	в7	RAVRFMCQL	12.000
407	HCV 2b	53	43	9	В7	TVRPTVAPV	10.000
408	HCV 2b	53	19	10	A_0201	QLPLVLINWT	94.268
409	HCV 2b	53	23	10	A_0201	VLINWTFCWA	88.257
410	HCV 2b	53	16	10		FMCQlPLVLI	79.718
411	HCV 2b	53	9	10	A_0201	LQLRaVRFMC	18.376
412	HCV 2b	53	8	10	A_0201	SLQLrAVRFM	12.569

- 113 -

413	HCV 2b	53	15	10	A24	RFMCqLPLVL	72.000
414	HCV 2b	53	2	10	A24	KPVCkLSLQL	14.400
415	HCV 2b	53	6	10	A3	KLSLqLRAVR	12.000
416	HCV 2b	53	13	10	в7	AVRFmCQLPL	600.000
417	HCV 2b	53	32	10	в7	APSLkRPAKL	240.000
418	HCV 2b	53	2	10	В7	KPVCkLSLQL	80.000
419	HCV 2b	53	32	10	В8	APSLKRPAKL	16.000
420	HCV 2b	53	2	10	B_3501	KPVCkLSLQL	40.000
421	HCV 2b	53	32	10	B_3501	APSLKRPAKL	20.000
422	HCV 2b	53	20	10	B_3501	LPLV1INWTF	20.000
423	HCV 2b	54	4	10	A3	TLAHaPCMEK	60.000
424	HCV 2b	55	10	10	A_0201	IMSHaMRWPV	640.458
425	HCV 2b	55	1	10	в7	MVRVgDQFSI	20.000
426	HCV 2b	56	9	9	A_0201	KLWRSGDTI	148.506
427	HCV 2b	56	35	9	B_4403	AEQTVAAIT	18.000
428	HCV 2b	56	24	10	A1	ITAPhTSPTY	25.000
429	HCV 2b	56	9	10	A3	KLWRsGDTIR	60.000
430	HCV 2b	56	3	10	A3	QLHSwVKLWR	12.000
431	HCV 2b	56	35	10	B_4403	AEQTVAAITI	18.000
432	HCV 2b	56	24	10	B_4403	ITAPhTSPTY	12.000
433	HCV 2b	57	1	9	A_0201	MLLFEQSLV	437.482
434	HCV 2b	57	2	9	A_0201	LLFEQSLVA	52.529
435	HCV 2b	58	24	9	A_0201	KEQPGKFLV	27.454
436	HCV 2b	58	22	9	B_4403	IEKEQPGKF	60.000
437	HCV 2b	58	24	9	B_4403	KEQPGKFLV	12.000
438	HCV 2b	58	2	10	A_0201	FLISTEDTGT	34.279
439	HCV 2b	58	24	10	B_4403	KEQPgKFLVA	12.000
440	HCV 2b	59	83	9	A1	RSEVFLVAR	27.000
441	HCV 2b	59	87	9	A_0201	FLVARTPNL	98.267
442	HCV 2b	59	56	9	A24	GYPGFPQDL	360.000
443	HCV 2b	59	11	9	A3	VMVSMTLPK	60.000
444	HCV 2b	59	12	9	в7	MVSMTLPKL	20.000
445	HCV 2b	59	42	9	B_3501	QPAQPQPSF	20.000
446	HCV 2b	59	69	9	B_3501	RSFGMGWRL	10.000
447	HCV 2b	59	84	9	B_4403	SEVFLVART	48.000
448	HCV 2b	59	11	10	A_0201	VMVSmTLPKL	60.325
449	HCV 2b	59	79	10	A_0201	RGWDrSEVFL	26.100
450	HCV 2b	59	86	10	A24	VFLVaRTPNL	30.000
451	HCV 2b	59	8	10	A24	KPHVmVSMTL	11.200
452	HCV 2b	59	51	10	A24	PYRGqGYPGF	10.000
453	HCV 2b	59	89	10	в7	VARTpNLGPL	120.000
454	HCV 2b	59	8	10	в7	KPHVmVSMTL	80.000
455	HCV 2b	59	19	10	в7	KLRD1CRGSL	60.000
456	HCV 2b	59	77	10	в7	LPRGwDRSEV	60.000
457	HCV 2b	59	35	10	в7	DPRGdRSQPA	20.000
458	HCV 2b	59	64	10	в7	LPVErRSFGM	20.000
459	HCV 2b	59	2	10	в7	YPMRsAKPHV	12.000
460	HCV 2b	59	35	10	в8	DPRGdRSQPA	32.000
461	HCV 2b	59	89	10	В8	VARTPNLGPL	16.000
462	HCV 2b	59	64	10	B_3501	LPVErRSFGM	80.000
463	HCV 2b	59	8	10	B_3501	KPHVmVSMTL	40.000
464	HCV 2b	59	77	10	B_3501	LPRGwDRSEV	18.000

- 114 -

465	HCV 2b	59	6	10	B_3501	SAKPhVMVSM	18.000
466	HCV 2b	59	19	10	B_3501	KLRD1CRGSL	12.000
467	HCV 2b	59	62	10	B_4403	QDLPvERRSF	20.000
468	HCV 2b	59	66	10	B_4403	VERRSFGMGW	12.000
469	HCV 2b	60				no hits	
470	HCV 2b	61	7	9	A_0201	VLPHGPDVV	23.754
471	HCV 2b	62	15	9	A_0201	LLLLGPTWC	171.868
472	HCV 2b	62	16	9	A3	LLLGPTWCY	40.500
473	HCV 2b	62	8	9	в7	TQRADWQLL	40.000
474	HCV 2b	62	14	10	A_0201	QLLLIGPTWC	101.099
475	HCV 2b	62	22	10	A_0201	WCYEgSCPGV	27.401
476	HCV 2b	62	6	10	A_0201	RVTQrADWQL	14.019
477	HCV 2b	62	15	10	A3	LLLLgPTWCY	27.000
478	HCV 2b	62	8	10	B7	TQRAdWQLLL	40.000
479	HCV 2b	62	6	10	в7	RVTQrADWQL	20.000
480	HCV 2b	63				no hits	
481	HCV 2b	64		_		no hits	90 000
482	HCV 2b	65	13	9	B7	HPLDRPLSL	80.000 20.000
483	HCV 2b	65	11	9	B7	SVHPLDRPL	24.000
484	HCV 2b	65	13	9	B8	HPLDRPLSL	40.000
485	HCV 2b	65	13	9	B_3501	HPLDRPLSL	20.369
486	HCV 2b	65	20	10	A_0201 B7	SLADVAAQDC SPRGKGDQSV	40.000
487	HCV 2b	65 65	3	10 10	B_3501	SPRGKGDQSV	12.000
488	HCV 2b	65 65	3 27	10	B_4403	QDCCaNDSHY	15.000
489	HCV 2b HCV 2b	65 66	6	9	A_0201	LVGHGTQAV	10.346
490 491	HCV 2b	66	5	10	A_0201	NLVGhGTQAV	69.552
492	HCV 2b	67	J	40	10101	no hits	
493	HCV 2b	68				no hits	
494	HCV 2b	69	9	9	A_0201	CLSPPHDDL	10.468
495	HCV 2b	69	11	9	в7	SPPHDDLLL	80.000
496	HCV 2b	69	29	9	в7	GNRQVPQTL	40.000
497	HCV 2b	69	11	9	B_3501	SPPHDDLLL	30.000
498	HCV 2b	69	18	10	A_0201	LLHWaEHDRL	17.795
499	HCV 2b	69	9	10	A_0201	CLSPpHDDLL	10.468
500	HCV 2b	69	28	10	A24	HGNRqVPQTL	10.080
501	HCV 2b	70				no hits	
502	HCV 2b	71	42	9	A_0201	TLNIGSIWV	382.536
503	HCV 2b	71	20	9	A_0201	WIMPQSVRV	162.769
504	HCV 2b	71	47	9	A_0201	SIWVLPKTV	79.376
5 <b>05</b>	HCV 2b	71	50	9	A_0201	VLPKTVCRA	19.425
506	HCV 2b	71	21	9	A_0201	IMPQSVRVV	16.105
507	HCV 2b	71	3	9	В7	HPPYIHPHL	80.000
508	HCV 2b	71	22	9	B_3501	MPQSVRVVY	40.000
509	HCV 2b	71	3	9	B_3501	HPPYIHPHL	20.000
510		71	8	9	B_3501	HPHLEDGEI	12.000
511		71	14	9	B_4403	GEIYGAWIM	30.000
512		71	42	10	A_0201	TLNIGSIWVL	151.086
513		71	20	10		WIMPQSVRVV	30.698 19.658
514		71	41	10		STLNIGSIWV	17.017
515		71	49	10		WVLPKTVCRA	36.000
516	HCV 2b	71	44	10	A3	NIGSIWVLPK	30.000

517 ·	HCV 2b	71	8	10	B_3501	HPHLeDGEIY	60.000
518	HCV 2b	71	11	10	B_4403	LEDGeIYGAW	18.000
519	HCV 2b	72	49	9	A_0201	KQGGHETRV	24.681
520	HCV 2b	72	68	9	A24	VYVPAAVGI	90.000
521	HCV 2b	72	8	9	A24	VFNIGDVGL	30.000
522	HCV 2b	72	29	9	в7	QPTAGRQTL	120.000
523	HCV 2b	72	3	9	в7	AVRPHVFNI	60.000
524	HCV 2b	72	1	9	B_3501	MPAVRPHVF	20.000
525	HCV 2b	72	29	9	B_3501	QPTAGRQTL	20.000
526	HCV 2b	72	61	9	В_3501	IAVEGGPVY	12.000
527	HCV 2b	72	61	10	A_0201	IAVEgGPVYV	37.032
528	HCV 2b	72	39	10	в7	AARAVEFVGI	36.000
529	HCV 2b	72	7	10	В7	HVFNiGDVGL	20.000
530	HCV 2b	72	9	10	B_4403	FNIGdVGLVF	11.250
531	HCV 2b	73	2	10	B7	AAEDnFQDQL	10.800 135.000
532	HCV 2b	74	57	9	A1	VSECTAVFY	109.693
533	HCV 2b	74	71	9	A_0201	YLYPAAQGT	87.586
534	HCV 2b	74	2	9	A_0201	TLVDGTVAL	280.000
535	HCV 2b	74	64	9	A24 A24	FYSHIRCYL LYPAAQGTI	75.000
536	HCV 2b	74	72 16	9 9	A24 A24	AFWRYYKSL	20.000
537	HCV 2b HCV 2b	74 74	16 90	9	A24 A24	KMENCVSEL	13.200
538 539	HCV 2b	74	82	9	A24 A3	ILAWDTSRK	20.000
540	HCV 2b	74	14	9	A3	VVAFWRYYK	18.000
541	HCV 2b	74	9	9	A3	ALLGKVVAF	13.500
542	HCV 2b	74	75	9	в7	AAQGTIVIL	36.000
543	HCV 2b	74	103	9	в7	VVRAIISGV	10.000
544	HCV 2b	74	83	9	B_3501	LAWDTSRKM	12.000
545	HCV 2b	74	65	9	B_3501	YSHIRCYLY	10.000
546	HCV 2b	74	58	9	B_4403	SECTAVFYS	54.000
547	HCV 2b	74	96	9	B_4403	SELPGDAVV	32.000
548	HCV 2b	74	2	10	A_0201	TLVDgTVALL	201.447
549	HCV 2b	74	71	10	A_0201	YLYPaAQGTI	19.964
550	HCV 2b	74	102	10	A_0201	AVVRaIISGV	13.997
551	HCV 2b	74	94	10	A_0201	CVSElPGDAV	12.226
552	HCV 2b	74	63	10	Ã24	VFYShIRCYL	28.000
553	HCV 2b	74	13	10	A3	KVVA£WRYYK	81.000
554	HCV 2b	74	10	10	A3	LLGKvVAFWR	18.000
555	HCV 2b	74	15	10	B7	VAFWYYKSL	12.000
556	HCV 2b	74	103	10	B7	VVRAİISGVV QSRAdRSCHY	30.000
557	HCV 2b	74	38	10 10	B_3501 B_3501	LPGDaVVRAI	16.000
558	HCV 2b HCV 2b	74 75	98 90	9	A_0201	RELDVLWAA	25.279
559 560	HCV 2b	75 75	18	9	н <u>-</u> 0201 В7	EPTCPTATL	120.000
561	HCV 2b	75	29	9	в7	IORPRISWL	40.000
562	HCV 2b	75	139	9	в7	TORYSASSL	40.000
563	HCV 2b	75	87	9	в7	AATRELDVL	36.000
564	HCV 2b	75	44	9	в7	GAPIFRDGL	18.000
565	HCV 2b	75	53	9	в7	ASPTRLGSL	12.000
566	HCV 2b	75	29	9	B8	IQRPRISWL	24.000
567	HCV 2b	75	18	9	B_3501	EPTCPTATL	20.000
568	HCV 2b	75	117	9	B_3501	RSTRPPGAL	10.000
569	HCV 2b	75	90	9	B_4403	RELDVLWAA	18.000
570	HCV 2b	75	98	10	A_0201	AVCVsFGFSL	41.197
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- 116 -

571	HCV 2b	75	28	10	A_0201	SIQRpRISWL	37.157
572	HCV 2b	75	90	10	A_0201	$\mathtt{RELD} \mathbf{v} \mathtt{LWAAV}$	34.877
573	HCV 2b	75	25	10	A_0201	TLVSiQRPRI	10.433
574	HCV 2b	75	77	10	A24	RQQVnSANDL	14.400
575	HCV 2b	75	120	10	A24	RPPGaLASTL	14.400
576	HCV 2b	75	141	10	A24	RYSASSLAGA	10.000
577	HCV 2b	75	40	10	A3	GLAGGAPIFR	36.000
578	HCV 2b	75	94	10	A3	VLWAaVCVSF	15.000
579	HCV 2b	75	52	10	в8	LASPTRLGSL	16.000
580	HCV 2b	75	115	10	в8	GARSTRPPGA	16.000
581	HCV 2b	75	120	10	B_3501	RPPGaLASTL	40.000
582	HCV 2b	75	133	10	B_4403	TTRPfATQRY	13.500

Table 4i 3a (1-3)

No.	Strain	ORF	Start	AA	HLA	Peptide sequence	Score
1	HCV 3a	1	2	9	A_0201	ALVRVSCSL	21.362
2	HCV 3a	1	2	9	B7	ALVRVSCSL	12.000
3	HCV 3a	1	1	10	в7	MALVRVSCSL	12.000
4	HCV 3a	2	32	10	A_0201	AIWVKSSIPL	24.380
5	HCV 3a	2	13	9	в7	CPRAAPVHL	800.000
6	HCV 3a	2	17	9	в7	APVHLGAQM	60.000
7	HCV 3a	2	32	10	в7	AIWVKSSIPL	12.000
8	HCV 3a	2	13	9	В8	CPRAAPVHL	16.000
9	HCV 3a	2	13	9	B_3501	CPRAAPVHL	60.000
10	HCV 3a	2	17	9	B_3501	APVHLGAQM	40.000
11	HCV 3a	2	26	9	B_3501	TPGGGPAIW	10.000
12	HCV 3a	3	8	10	A1	CTHPAAYLVF	12.500
13	HCV 3a	3	13	9	A24	AYLVFRTTI	75.000
14	HCV 3a	3	6	10	A24	SFCTHPAAYL	20.000
15	HCV 3a	3	5	10	B_3501	TSFCtHPAAY	10.000
16	HCV 3a	4	1	10	A_0201	MPPEGLLAFL	12.295
17	HCV 3a	4	13	9	В7	APNRNCSWL	240.000
18	HCV 3a	4	24	9	в7	MARGTSTAL	120.000
19	HCV 3a	4	1	10	в7	MPPEgLLAFL	80.000
20	HCV 3a	4	12	10	в7	WAPNYNCSWL	12.000
21	HCV 3a	4	24	9	B8	MARGTSTAL	16.000
22	HCV 3a	4	1	9	B_3501	MPPEGLLAF	40.000
23	HCV 3a	4	13	9	B_3501	APNRNCSWL	20.000
24	HCV 3a	4	1	10	B_3501	MPPEgLLAFL	40.000
25	HCV 3a	5	5	9	A_0201	GLLAFLVWA	883.604
26	HCV 3a	5	1	10	A_0201	MPPEGLLAFL	12.295
27	HCV 3a	5	32	9	A3	VLYTASHHR	20.000
28	HCV 3a	5	18	9	A3	HLDLVKLSR	12.000
29	HCV 3a	5	13	9	в7	TAGTTHLDL	12.000
30	HCV 3a	5	24	10	в7	LSRHqVSAVL	40.000
31	HCV 3a	5	10	10	В7	TNRTaGTTHL	40.000
32	HCV 3a	5	24	10	B_3501	LSRHqVSAVL	15.000 10.080
33	HCV 3a	6	23	9	A24	CGLPVVGGL	20.000
34	HCV 3a	6	8	9 9	в7 в_3501	TPGVRMIPM TPGVRMIPM	40.000
35	HCV 3a	6	8	10	A_0201	NILRpHTAGV	35.385
36	HCV 3a	7 7	22 15	9	B7	APPTASGNI	24.000
37	HCV 3a HCV 3a	7	15	10	в7	APPTaSGNIL	240.000
38	HCV 3a	7	15	10	B_3501	APPTaSGNIL	20.000
39 40	HCV 3a	8	7	10	A3	ALDLaWWDGR	12.000
41	HCV 3a	8	43	9	A1	YVDASPPSK	20.000
42	HCV 3a	9	57	9	A_0201	YLHAGVGTV	95.662
43	HCV 3a	9	36	9	A_0201	YGGTSTPYV	11.487
44	HCV 3a	9	21	10	A_0201	SLPYhPGTSI	10.433
45	HCV 3a	9	34	10	A_0201	ALYGgTSTPY	30.000
45 46	HCV 3a	9	2	9	в7	RGRVKTALL	40.000
47	HCV 3a	9	22	9	в7	LPYHPGTSI	12.000
48			4	10	в7	RVKTaLLSAL	20.000
**0	HCV 3a	9	-	10			

49	HCV 3a	9	16	9	B_3501	WPSSASLPY	40.000
50	HCV 3a	9	28	9	B_3501	TSIGSAALY	10.000
51	HCV 3a	9	28	9	B_4403	TSIGSAALY	33.750
52	HCV 3a	10	20	9	A_0201	KLGAFLGLL	84.952
53	HCV 3a	10	13	9	A24	RSQHTPSKL	13.200
54	HCV 3a	10	17	9	в7	TPSKLGAFL	80.000
55	HCV 3a	10	17	9	B_3501	TPSKLGAFL	20.000
56	HCV 3a	10	13	9	B_3501	RSQHTPSKL	10.000
57	HCV 3a	11	13	9	в7	IPRSKCTQM	200.000
58	HCV 3a	11	10	9	в7	APNIPRSKC	13.500
59	HCV 3a	11	13	9	В8	IPRSKCTQM	80.000
60	HCV 3a	11	13	9	B_3501	IPRSKCTQM	120.000
61	HCV 3a	12	19	9	A1	VLDLSPVSK	20.000
62	HCV 3a	12	38	10	A24	RGMLqGSLGL	12.000
63	HCV 3a	12	19	9	A3	VLDLSPVSK	20.000
64	HCV 3a	12	12	9	В7	TPQRACSVL	80.000
65	HCV 3a	12	36	10	в7	ALRGmLQGSL	120.000
66	HCV 3a	12	28	10	в7	VPLEVLLCAL	80.000
67	HCV 3a	12	38	10	в7	RGMLqGSLGL	12.000
68	HCV 3a	12	12	9	B_3501	TPQRACSVL	20.000
69	HCV 3a	12	25	9	B_3501	VSKVPLEVL	15.000
70	HCV 3a	12	28	10	B_3501	VPLEVLLCAL	40.000
71	HCV 3a	12	25	10	B_3501	VSKVpLEVLL	15.000
72	HCV 3a	13	13	10	A24	RPLTWHKDIL	12.000
73	HCV 3a	13	1	9	в7	MPRPAAVKA	20.000
74	HCV 3a	13	13	10	в7	RPLTWHKDIL	80.000
75	HCV 3a	13	6	10	в7	AVKAqRSRPL	60.000
76	HCV 3a	13	6	10	в8	AVKAqRSRPL	80.000
77	HCV 3a	13	13	9	B_3501	RPLTWHKDI	16.000
78	HCV 3a	13	13	10	B_3501	RPLTWHKDIL	40.000
79	HCV 3a	14	8	9	A_0201	ALGTAPLQL	21.362
80	HCV 3a	14	8	10	A_0201	ALGTaPLQLV	159.970
81	HCV 3a	14	8	9	в7	ALGTAPLQL	12.000
82	HCV 3a	14	7	10	в7	SALGTAPLQL	12.000
83	HCV 3a	15	2	10	A1	NVMPKTLLAY	∠5.000
84	HCV 3a	15	7	9	A_0201	TLLAYWVSA	31.249
85	HCV 3a	15	8	9	A3	LLAYWVSAR	36.000
86	HCV 3a	15	3	9	A3	VMPKTLLAY	12.000
87	HCV 3a	15	7	10	A3	TLLAyWVSAR	54.000
88	HCV 3a	15	4	9	B_3501	MPKTLLAYW	30.000
89	HCV 3a	15	4	10	B_3501	MPKTllAYWV	12.000
90	HCV 3a	17	19	9	A1	HTDMSPPVK	50.000
91	HCV 3a	17	35	9	A_0201	RLFSVSAMT	27.572
92	HCV 3a	17	22	9	A24	MSPPVKDRL	10.080
93	HCV 3a	17	30	10		LECLTRLFSV	30.670
94	HCV 3a	17	32	10		CLTR1FSVSA	18.878
95	HCV 3a	17	35	10		RLFSvSAMTR	40.000
96	HCV 3a	17	10	9		AVRAEVDSV	30.000
97	HCV 3a	17	45	10	B7	AARGTISSPL	360.000
98	HCV 3a	17	33	10	в7	LTRLfSVSAM	10.000
99	HCV 3a	17	25	9	B8	PVKDRLECL	12.000
100	HCV 3a	17	45	10	B8	AARGTISSPL	16.000

WO 2004/011650 PCT/EP2003/008112

101	HCV 3a	17	13	10	в_4403	AEVDsVHTDM	36.000
102	HCV 3a	19	4	9	A24	RPFYIGWGL	11.200
102	HCV 3a	19	6	10	A24	FYIGWGLSKM	41.250
104	HCV 3a	19	4	9	в7	RPFYIGWGL	80.000
105	HCV 3a	19	4	9	B_3501	RPFYIGWGL	40.000
106	HCV 3a	20	8	9	A24	KPPRTSSKL	13.200
107	HCV 3a	20	8	9	в7	KPPRTSSKL	80.000
108	HCV 3a	20	8	9	B_3501	KPPRTSSKL	40.000
1.09	HCV 3a	21	3	9	A_0201	LVSQAPWWL	131.078
110	HCV 3a	21	33	9	A_0201	YLRVLSSSV	24.315
111	HCV 3a	21	2	10	A_0201	ELVSqAPWWL	66.090
112	HCV 3a	21	3	10	A_0201	LVSQaPWWLL	40.515
113	HCV 3a	21	32	9	A24	YYLRVLSSS	10.500
114	HCV 3a	21	29	9	в7	CPPYYLRVL	80.000
115	HCV 3a	21	3	9	в7	LVSQAPWWL	20.000
116	HCV 3a	21	3	10	в7	LVSQaPWWLL	30.000
117	HCV 3a	21	29	9	в_3501	CPPYYLRVL	20.000
118	HCV 3a	21	25	9	_ В_3501	WSTCCPPYY	10.000
119	HCV 3a	21	7	9	_ В_3501	APWWLLRSW	10.000
120	HCV 3a	21	13	10	_ В_3501	RSWEeNSPPL	20.000
121	HCV 3a	21	1	9	В_4403	MELVSQAPW	24.000
122	HCV 3a	21	1	10	_ В_4403	MELVsQAPWW	36.000
123	HCV 3a	21	16	10	 В_4403	EENSpPLRTW	18.000
124	HCV 3a	23	24	9	— в7	CPTSSHGSL	80.000
125	HCV 3a	23	24	1.0	в7	CPTSsHGSLL	80.000
126	HCV 3a	23	24	9	B_3501	CPTSSHGSL	20.000
127	HCV 3a	23	24	10	B_3501	CPTSsHGSLL	20.000
128	HCV 3a	24	38	9	A_0201	TLARYGAWL	117.493
129	HCV 3a	24	78	9	A_0201	LLSSSLKWM	106.837
130	HCV 3a	24	22	9	A_0201	SMSTPPDPV	24.614
131	HCV 3a	24	45	9	A_0201	WLPTATLKC	22.853
132	HCV 3a	24	5	9	A_0201	GLQGRVHVL	20.145
133	HCV 3a	24	77	10	A_0201	RLLSsSLKWM	232.527
134	HCV 3a	24	45	10	A_0201	WLPTaTLKCA	52.561
135	HCV 3a	24	75	9	A24	KYRLLSSSL	480.000
136	HCV 3a	24	41	9	A24	RYGAWLPTA	10.000
137	HCV 3a	24	67	10	A3	KMSSsVRAKY	18.000
138	HCV 3a	24	71	9	в7	SVRAKYRLL	200.000
139	HCV 3a	24	11	9	в7	HVLTCGTVL	20.000
140	HCV 3a	24	43	9	в7	GAWLPTATL	18.000
141	HCV 3a	24	71	9	В8	SVRAKYRLL	80.000
142	HCV 3a	24	68	9	B_3501	MSSSVRAKY	10.000
143	HCV 3a	24	54	9	B_4403	AEWGTSIIL	12.000
144	HCV 3a	25	72	10	A1	WTVPmCPRRY	12.500
145	HCV 3a	25	18	9	A_0201	ILQPFLSGL	317.403
146	HCV 3a	25	22	9	A_0201	FLSGLGQTT	34.279
147	HCV 3a	25	7	9	A_0201	WLQSVSRNL	19.653
148	HCV 3a	25	42	10	A_0201	IMYHqLSMDV	273.262
149	HCV 3a	25	14	10	A_0201	NLPSiLQPFL	117.493
150	HCV 3a	25	17	10	A_0201	SILQpFLSGL	94.987
151	HCV 3a	25	22	10	A_0201	FLSGlGQTTI	47.991
152		25	25	10	A_0201	GLGQTTILHC	11.426

- 120 -

153	HCV 3a	25	6	10	A24	RWLQsVSRNL	16.800
154	HCV 3a	25	13	10	A24	RNLPsILQPF	12.096
155	HCV 3a	25	31	9	A3	ILHCWTAGK	60.000
156	HCV 3a	25	15	9	в7	LPSILQPFL	80.000
157	HCV 3a	25	11	9	в7	VSRNLPSIL	40.000
158	HCV 3a	25	39	9	в7	KLRIMYHQL	40.000
159	HCV 3a	25	74	9	в7	VPMCPRRYV	27.000
160	HCV 3a	25	50	9	в7	DVPYHHGAL	20.000
161	HCV 3a	25	56	9	в7	GALRRSLLL	12.000
162	HCV 3a	25	10	10	в7	SVSRnLPSIL	20.000
1.63	HCV 3a	25	56	9	ъ8	GALRRSLLL	16.000
164	HCV 3a	25	15	9	B_3501	LPSILQPFL	20.000
165	HCV 3a	25	11	9	B_3501	VSRNLPSIL	15.000
166	HCV 3a	25	72	10	B_4403	WTVPmCPRRY	12.000
167	HCV 3a	25	5	10	A_0201	ALTQLSLNRT	17.140
168	HCV 3a	25	20	9	A24	RYTNAATLN	10.000
169	HCV 3a	25	10	10	А3	SLNRtSGWKR	12.000
170	HCV 3a	25	2	10	в7	TPAA1TQLSL	80.000
171	HCV 3a	25	2	10	B_3501	TPAAlTQLSL	20.000
172	HCV 3a	26	5	10	_ A_0201	ALTQLSLNRT	17.140
173	HCV 3a	26	20	9	A24	RYTNAATLN	10.000
174	HCV 3a	26	10	10	A3	SLNRtSGWKR	12.000
175	HCV 3a	26	2	10	в7	TPAAlTQLSL	80.000
176	HCV 3a	26	2	10	B_3501	TPAAlTQLSL	20.000
177	HCV 3a	27	1	9	A_0201	MIWSWWPRV	229,4
178	HCV 3a	27	6	10	в7	WPRVtASMRM	200
179	HCV 3a	27	6	10	в_3501	WPRVtASMRM	120
180	HCV 3a	28	1	9	A_0201	MLHSPPTTL	36,32
181	HCV 3a	29	1	9	B_4403	MDHSPVRNF	15
182	HCV 3a	30	6	9	A_0201	QQLQAHHFL	44,08
183	HCV 3a	30	13	9	A_0201	FLQAGVGSL	29,38
184	HCV 3a	30	5	10	A_0201	~ AQQLqAHHFL	11,91
185	HCV 3a	30	12	10	A24	HFLQaGVGSL	30
186	HCV 3a	30	5	10	в7	AQQLqAHHFL	12
187	HCV 3a	31	16	10	в7	WVRApVYRRL	200
188	HCV 3a	31	18	10	в7	RAPVYRRLQL	18
189	HCV 3a	31	12	10	в7	DVRGwVRAPV	15
190	HCV 3a	31	19	9	в7	APVYRRLQL	360
191	HCV 3a	31	19	9	в8	APVYRRLQL	16
192	HCV 3a	31	24	10	A24	RLQLdQGGAL	12
193	HCV 3a	31	18	10	A24	RAPVyRRLQL	12
194	HCV 3a	31	26	10	A1	QLDQgGALRY	125
195	HCV 3a	31	26	9	A1	QLDQGGALR	10
196	HCV 3a	32	37	9	A1	LGEPCHAER	45
197	HCV 3a	32	37	10	<b>A</b> 1	LGEPCHAERR	22,5
198	HCV 3a	32	56	10	A_0201	LVPGgLLCGV	23,8
199	HCV 3a	32	60	9	A_0201	GLLCGVVRA	42,28
200	HCV 3a	32	53	9	A24	RYRLVPGGL	560
201	HCV 3a	32	53	10		RYRLvPGGLL	400
202	HCV 3a	32	68	10		AGQTcPGGDL	18
203	HCV 3a	32	17	9	в7	GPTRVRCPL	120
204	HCV 3a	33				no hits	
-54							

- 121 -

205	HCV 3a	3 <b>4</b>	4	9	B_3501	RPPSVGPPL	40
206	HCV 3a	35	50	9	A1	IAEFSNCHK	18
207	HCV 3a	35	44	10	A1	CSEGhRIAEF	27
208	HCV 3a	35	30	9	в7	QPRFTNALC	20
209	HCV 3a	35	45	9	B_4403	SEGHRIAEF	80
210	HCV 3a	35	19	9	B_4403	DEQAHRIRI	12
211	HCV 3a	35	51	10	B_4403	AEFSnCHKPA	12
212	HCV 3a	35	45	10	B_4403	SEGHrIAEFS	12
213	HCV 3a	36				no hits	
214	HCV 3a	37	33	10	в7	CASGKIISVL	12
215	HCV 3a	37	34	9	в7	ASGKIISVL	12
216	HCV 3a	37	16	10	B_4403	EEKNnSAGRF	60
217	HCV 3a	38	15	10	A1	GLELTLLVHR	18
218	HCV 3a	38	15	10	A3	GLELrLLVHR	18
219	HCV 3a	38	11	10	в7	TGRSgLELRL	40
220	HCV 3a	38	8	9	в7	RGRTGRSGL	60
221	HCV 3a	38	13	9	B_3501	RSGLELRLL	15

Table 4j 3a (4-6)

No.	Strain	ORF	Start	AA	HLA	Peptide sequence	Score
1	HCV 3a	1				no hits	
2	HCV 3a	2	1	9	A_0201	MVVEHLQSV	97.561
3	HCV 3a	2	7	9	B_3501	QSVEGNLPL	10.000
4	HCV 3a	3	15	9	A_0201	FLLLSTTRC	84.555
5	HCV 3a	3	8	9	A_0201	AEWADGQFL	18.962
6	HCV 3a	3	54	9	В7	QVRIARFSL	300.000
7	HCV 3a	3	28	9	в7	GPRVRHRAA	20.000
. 8	HCV 3a	3	34	9	в7	RAADHALLL	12.000
9	HCV 3a	3	28	9	в8	GPRVRHRAA	16.000
10	HCV 3a	3	34	9	B_3501	RAADHALLL	12.000
11	HCV 3a	3	8	10	A_0201	AEWAdGQFLL	19.996
12	HCV 3a	3	53	10	A_0201	TQVRiARFSL	12.562
13	HCV 3a	3	48	10	В7	GPRVaTQVRI	80.000
14	HCV 3a	3	48	10	B_3501	GPRVaTQVRI	24.000
15	HCV 3a	3	8	10	B_4403	AEWAdGQFLL	12.000
16	HCV 3a	4	32	9	A_0201	ILGRFLETL	155.527
17	HCV 3a	4	6	9	A_0201	YIIRSFPAV	83.584
18	HCV 3a	4	20	9	A3	VVWPSPDRK	15.000
19	HCV 3a	4	22	9	B_3501	WPSPDRKGW	15.000
20	HCV 3a	4	39	10	A_0201	TLCShRELGV	69.552
21	HCV 3a	4	31	10	A_0201	RILGrFLETL	46.544
22	HCV 3a	4	31	10	A24	RILGrFLETL	12.000
23	HCV 3a	4	24	10	в7	SPDRkGWRIL	24.000
24	HCV 3a	5	2	9	A24	RPMRLASGL	14.400
25	HCV 3a	5	2	9	в7	RPMRLASGL	240.000
26	HCV 3a	5	2	9	B_3501	RPMRLASGL	40.000
27	HCV 3a	6	30	9	в7	QPYRESDLL	80.000
28	HCV 3a	6	30	9	B_3501	QPYRESDLL	30.000
29	HCV 3a	6	9	10	A_0201	GQHRnIWFWL	117.457
30	HCV 3a	6	23	10	в_3501	RSYRVGIQPY	20.000
31.	HCV 3a	7	1	9	B_4403	MEVPHSAHF	160.000
32	HCV 3a	8	33	9	В7	QPGERWHNL	80.000
33	HCV 3a	8	15	9	в7	HAVPPPHAL	18.000
34	HCV 3a	8	33	9	B8	QPGERWHNL	24.000
35	HCV 3a	8	33	9	B_3501	QPGERWHNL	40.000
36	HCV 3a	8	30	9	B_4403	NEGQPGERW	12.000
37	HCV 3a	8	17	10	В7	VPPPhALVSL	80.000
38	HCV 3a	8	17	10	B_3501	VPPPhALVSL	20.000
39	HCV 3a	9		_	- 0004	no hits	117 457
40	HCV 3a	10	28	9	A_0201	LQQSKDFFL	117.457 42.129
41	HCV 3a	10	44	9	A_0201	SLLDVRGGL	42.129 36.316
42	HCV 3a	10	1	9	A_0201	MLVPEGLKL	29.965
43	HCV 3a	10	2	9	A_0201	LVPEGLKLL	240.000
44	HCV 3a	10	14	9	A24	SYYGLNDSL	200.000
45	HCV 3a	10	15	9	A24	YYGLNDSLL	10.080
46	HCV 3a	10	44	9	A24	SLLDVRGGL	40.500
47	HCV 3a	10	8	9	A3	KLLPVGSYY	40.500

48	HCV 3a	10	10	9	в7	LPVGSYYGL	80.000
49	HCV 3a	10	38	9	в7	LVGYCLSLL	20.000
50	HCV 3a	10	2	9	в7	LVPEGLKLL	20.000
51	HCV 3a	10	30	9	B_3501	QSKDFFLEL	30.000
52	HCV 3a	10	10	9	в_3501	LPVGSYYGL	20.000
53	HCV 3a	10	27	10	A_0201	SLQQsKDFFL	681.461
54	HCV 3a	10	1	10	A_0201	MLVPeGLKLL	83.527
55	HCV 3a	10	9	10	A_0201	LLPVgSYYGL	54.474
56	HCV 3a	10	29	10	A_0201	QQSKdFFLEL	15.638
57	HCV 3a	10	15	10	A24	YYGLnDSLLL	200.000
58	HCV 3a	10	14	10	A24	SYYGLNDSLL	200.000
59	HCV 3a	10	34	10	A24	FFLELVGYCL	50.400
60	HCV 3a	10	23	10	A3	LLGGsLQQSK	30.000
61	HCV 3a	10	6	10	A3	GLKL1PVGSY	16.200
62	HCV 3a	10	32	10	B_4403	KDFFLELVGY	22.500
63	HCV 3a	10	15	10	A24	YYGLnDSLLL	200.000
64	HCV 3a	10	14	10	A24	SYYGLNDSLL	200.000
65	HCV 3a	10	34	10	A24	FFLELVGYCL	50.400
66	HCV 3a	10	23	10	A3	LLGGsLQQSK	30.000
67	HCV 3a	10	6	10	A3	GLKLLPVGSY	16.200
68	HCV 3a	10	32	10	B_4403	KDFF1ELVGY	22.500
69	HCV 3a	11				no hits	
70	HCV 3a	12	27	9	A_0201	RAQGHFFDV	10.645
71	HCV 3a	12	25	9	A24	TFRAQGHFF	10.000
72	HCV 3a	12	6	9	B_3501	VPPPLEQGY	40.000
73	HCV 3a	12	15	10	A24	RYSLTVEGDL	560.000
74	HCV 3a	12	1	10	в7	MAKDKVPPPL	12.000
75	HCV 3a	12	1	10	B8	MAKDkVPPPL	24.000
76	HCV 3a	12	1	10	B_3501	MAKDKVPPPL	18.000
7 <b>7</b>	HCV 3a	13	14	9	в7	GATPVREKL	18.000
78	HCV 3a	13	19	9	B_4403	REKLTVGGI	12.000
79	HCV 3a	13	9	10	A_0201	IVCPpGATPV	10.346
80	HCV 3a	14	5	10	A3	YLIALWNSRR	18.000
81	HCV 3a	15	32	9	B7	APSRDDIGI	24.000
82	HCV 3a	15	1	9	B7	MPRRAHNRT	12.000
83	HCV 3a	15	32	9	B_3501	APSRDDIGI	12.000
84	HCV 3a	15	29	10	B7	VPPApSRDDI DDIGİAGNQV	16.875
85	HCV 3a	15	36 16	10 9	в <u>4</u> 403 в7	SPRNPPHCC	30.000
86	HCV 3a	16	16 3	9	B8	GARERSRTC	24.000
87 88	HCV 3a HCV 3a	16 16	3 16	10	B7	SPRNpPHCCT	30.000
89	HCV 3a	17	43	9	B_4403	CEIDCTWVM	30.000
90	HCV 3a	17	35	9	B_4403	HEHPHLEQC	12.000
91	HCV 3a	17	50	9	A_0201	VMPKPVWIV	603.952
92	HCV 3a	17	2	9	A_0201	QQWMLLAAV	134.619
93	HCV 3a	17	4	9	A_0201	WMLLAAVTI	128.242
94	HCV 3a	17	- 49	9	A_0201	WVMPKPVWI	85.454
95	HCV 3a	17	56	9	A_0201	WIVDHAAGC	12.883
96	HCV 3a	17	32	9	в7	ЕРТНЕНРИЬ	80.000
97	HCV 3a	17	71	9	в7	TPAVCGLRM	20.000
98	HCV 3a	17	67	9	в7	GPRTTPAVC	20.000
99	HCV 3a	17	23	9	в7	VASGGKPVL	12.000
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- 124 -

100	HCV 3a	17	71	9	B_3501	TPAVCGLRM	40.000
101	HCV 3a	17	32	9	B_3501	EPTHEHPHL	30.000
102	HCV 3a	17	37	9	B_3501	HPHLEQCEI	12.000
103	HCV 3a	17	43	9	B_4403	CEIDCTWVM	30.000
104	HCV 3a	17	35	9 ,	B_4403	HEHPHLEQC	12.000
105	HCV 3a	17	44	10	A1	EIDCtWVMPK	50.000
106	HCV 3a	17	49	10	A_0201	WVMPkPVWIV	732.572
107	HCV 3a	17	6	10	A_0201	LLAAvTIFDI	236.595
108	HCV 3a	17	1	10	A_0201	MQQWmLLAAV	27.573
109	HCV 3a	17	41	10	A_0201	EQCEIDCTWV	11.926
110	HCV 3a	17	44	10	A3	EIDCtWVMPK	10.800
111	HCV 3a	17	9	10	<b>B</b> 7	AVTIFDIAAL	60.000
112	HCV 3a	17	71	10	B_3501	TPAVcGLRMF	20.000
113	HCV 3a	17	40	10	B_4403	LEQCeIDCTW	12.000
114	HCV 3a	18	4	9	A_0201	KQPSYEPGV	24.681
115	HCV 3a	18	32	9	A_0201	NQLQFLLGA	16.289
116	HCV 3a	18	15	9	A_0201	LITVQGSAV	16.258
117	HCV 3a	18	30	9	A_0201	GVNQLQFLL	10.841
118	HCV 3a	18	7	9	A24	SYEPGVYGL	360.000
119	HCV 3a	18	36	9	A3	FLLGAHTKK	45.000
120	HCV 3a	18	30	9	в7	GVNQLQFLL	20.000
121	HCV 3a	18	5	9	B_3501	QPSYEPGVY	60.000
122	HCV 3a	18	44	9	B_3501	KASKPSGGM	12.000
123	HCV 3a	18	36	10	A_0201	FLLGaHTKKA	84.555
124	HCV 3a	18	14	10	A_0201	GLITvQGSAV	69.552
125	HCV 3a	18	28	10	A_0201	AIGVnQLQFL	37.157
126	HCV 3a	18	7	10	A24	SYEPgVYGLI	126.000
127	HCV 3a	18	25	10	в7	VPRAiGVNQL	800.000
128	HCV 3a	18	28	10	в7	AIGVnQLQFL	12.000
129	HCV 3a	18	25	10	В8	VPRAIGVNQL	16.000
130	HCV 3a	18	25	10	B_3501	VPRAiGVNQL	60.000
131	HCV 3a	19	10	9	A3	GLGHPQDVR	18.000
132	HCV 3a	19	2	10	В7	GPGYYVEQGL	80.000
133	HCV 3a	19	2	10	B_3501	GPGYyVEQGL	20.000
134	HCV 3a	20	34	9	A24	RYAAGCVQN	10.000
135	HCV 3a	20	39	9	в7	CVQNDVIGL	20.000
136	HCV 3a	20	23	9	в7	PARGYIVVL	12.000
137	HCV 3a	20	22	10	в7	GPARgYIVVL	80.000
138	HCV 3a	20	22	10	B_3501	GPARGYIVVL	20.000
139	HCV 3a	21	65	9	A_0201	LITIEGPRV	16.258
140	HCV 3a	21	83	9	A_0201	ALTRLGDRL	10.468
141	HCV 3a	21	57	9	в7	EPPCPPAAL	120.000
142	HCV 3a	21	79	9	в7	GPASALTRL	80.000
143	HCV 3a	21	83	9	в7	ALTRLGDRL	12.000
144	HCV 3a	21	57	9	B_3501	EPPCPPAAL	20.000
145	HCV 3a	21	79	9	B_3501	GPASALTRL	20.000
146	HCV 3a	21	68	9	B_4403	IEGPRVPGL	24.000
147	HCV 3a	21	14	9	B_4403	DERDVPHEV	18.000
148	HCV 3a	21	64	10	A_0201	ALITIEGPRV	69.552
149	HCV 3a	21	75	10	A_0201	GLSPgPASAL	21.362
150	HCV 3a	21	86	10	A_0201	RLGDrLSSSA	20.369
151	HCV 3a	21	43	10	A_0201	VIWApRWTGA	16.386

- 125 -

152	HCV 3a	21	82	10	в7	SALTrLGDRL	12.000
153	HCV 3a	21	57	10	в7	EPPCpPAALI	12.000
154	HCV 3a	21	68	10	B_4403	IEGPrVPGLS	12.000
155	HCV 3a	22	14	9	A_0201	QGSDPWWSV	23.734
156	HCV 3a	22	5	9	B_3501	FPREDRSSS	18.000
157	HCV 3a	22	15	10	A1	GSDPwWSVAS	15.000
158	HCV 3a	22	13	10	A_0201	SQGSdPWWSV	89.910
159	HCV 3a	23	2	9	A_0201	SMTLSRTPL	15.428
160	HCV 3a	23	1	10	в7	MSMTLSRTPL	18.000
161	HCV 3a	23	8	10	B_3501	TPLPgRGAPW	10.000
162	HCV 3a	24	42	9	A_0201	<b>QLVVHNPEL</b>	21.362
163	HCV 3a	24	35	9	в7	VVRHIHGQL	200.000
164	HCV 3a	24	53	9	в7	GPTVEDCSL	80.000
165	HCV 3a	24	53	9	B_3501	GPTVEDCSL	30.000
166	HCV 3a	24	26	9	B_4403	EEGPAERPV	12.000
167	HCV 3a	24	23	10	A1	SSEEeGPAER	27.000
168	HCV 3a	24	34	10	В7	VVVRhIHGQL	20.000
1.69	HCV 3a	24	9	10	в7	TPRThWNRPA	20.000
170	HCV 3a	24	35	10	в7	VVRHiHGQLV	10.000
171	HCV 3a	24	30	10	B_4403	AERPvVVRHI	72.000
172	HCV 3a	25				no hits	
173	HCV 3a	26				no hits	
174	HCV 3a	27				no hits	5 1 P20
175	HCV 3a	28	3	9	A_0201	KVYWVRWCT	54.772
176	HCV 3a	29	17	9	A_0201	LLLPRKDSV	214 - 366
177	HCV 3a	29	19	9	B7	LPRKDSVST	20.000
178	HCV 3a	29	30	9	B7	RPPATRPCI	12.000
179	HCV 3a	29	30	9	B_3501	RPPATRPCI	126.098
180	HCV 3a	29	16	10	A_0201	RLLLpRKDSV	12.668
181	HCV 3a	29	18	10	A_0201	LLPRKDSVST YLGPYGHDV	319.939
182	HCV 3a	30	5	9	A_0201 B7	DVGCGKPHL	20.000
183	HCV 3a	30	12 16	9 9	в7 В7	WNRSVWHQL	40.000
184	HCV 3a	31 31	8	9	B_3501	RPRETYRRW	120.000
185 186	HCV 3a	31	15	10	A24	RWNRsVWHQL	16.800
187	HCV 3a	31	8	10	B_3501	RPRETYRRWN	24.000
188	HCV 3a	31	4	10	B_3501	RSNPrPRETY	20.000
189	HCV 3a	32	41	9	B_4403	EELNCQRKM	12.000
190	HCV 3a	32	23	10	в7	RCRSGHEGIL	40.000
191	HCV 3a	32	11	10	в7	VPRKrPGPLC	30.000
192	HCV 3a	32	10	10	в7	LVPRkRPGPL	20.000
193	HCV 3a	33				no hits	
194	HCV 3a	34	19	9	B_3501	RAPHHTGCM	12.000
195	HCV 3a	34	20	9	B_3501	APHHTGCMW	10.000
196	HCV 3a	34	7	10	A_0201	GMDSrPCSGV	20.093
197	HCV 3a	35				no hits	
198	HCV 3a	36				no hits	
199		37	27	9	A1	RAEPRTGLR	90.000
200			27	10	A1	RAEPrTGLRS	45.000
201			10	10	A1	ATLPTRSPHY	25.000
202			25	10	в7	GTRAePRTGL	90.000
203			3	10	в7	GSRAgTGATL	40.000

PCT/EP2003/008112

204	HCV 3a	37	29	10	в7	EPRTgLRSDA	30.000
205	HCV 3a	37	3	10	B_3501	GSRAgTGATL	15.000
206	HCV 3a	37	10	10	B_4403	ATLPTRSPHY	24.000
207	HCV 3a	38	8	9	A1	GLEAARHSY	45.000
208	HCV 3a	38	8	9	A3	GLEAARHSY	12.000
209	HCV 3a	38	1	9	В7	MALPGGGGL	12.000
210	HCV 3a	39				no hits	44
211	HCV 3a	40	26	9	A_0201	LVLVRTAQL	11.757
212	HCV 3a	40	11	9	A_0201	QMDKSNWPA	10.764
213	HCV 3a	40	20	9	A24	RGSGVSLVL	11.200
214	HCV 3a	40	27	9	A3	VLVRTAQLK	30.000
215	HCV 3a	40	26	9	в7	LVLVRTAQL	20.000
216	HCV 3a	40	18	9	в7	PARGSGVSL	12.000
217	HCV 3a	40	10	10	A_0201	NQMDkSNWPA	57.308
218	HCV 3a	40	25	10	A_0201	SLVLvRTAQL	21.362
219	HCV 3a	40	27	10	A3	VLVRtAQLKR	12.000
220	HCV 3a	40	17	10	В7	WPARgSGVSL	80.000
221	HCV 3a	40	3	10	в7	FPPTpTVNQM	20.000
222	HCV 3a	40	3	10	B_3501	FPPTpTVNQM	40.000
223	HCV 3a	40	17	10	B_3501	WPARgSGVSL	20.000
224	HCV 3a	41	1	9	A_0201	MIAGKSSGV	16.258
225	HCV 3a	42	19	9	A_0201	MMMLPNQEL	97.045
226	HCV 3a	42	20	9	A_0201	MMLPNQELT	16.588
227	HCV 3a	42	7	9	A_0201	IITMRTQMV	16.258
228	HCV 3a	42	14	9	в7	MVGAYMMML	20.000
229	HCV 3a	42	19	9	в7	MMMLPNQEL	18.000
230	HCV 3a	42	1	9	B_4403	MEKKCVIIT	12.000
231	HCV 3a	42	21	10	A_0201	MLPNqELTGV	271.948
232	HCV 3a	42	18	10	A_0201	YMMM1PNQEL	262.591
233	HCV 3a	42	13	10	A_0201	QMVGaYMMML	35.485
234	HCV 3a	42	19	10	A_0201	MMMLpNQELT	16.588
235	HCV 3a	42	6	10	A_0201	VIITmRTQMV	16.258
236	HCV 3a	42	13	10	A3	QMVGaYMMML	12.150
237	HCV 3a	42	18	10	в7	YMMMLPNQEL	18.000
238	HCV 3a	43	13	9	A_0201	VSYENPKGV	10.126
239	HCV 3a	43	14	9	A24	SYENPKGVF	150.000
240	HCV 3a	43	20	9	в7	GVFFEVHIL	20.000
241	HCV 3a	43	17	9	B_3501	NPKGVFFEV	12.000
242	HCV 3a	43	15	9	B_4403	YENPKGVFF	120.000
243	HCV 3a	43	7	9	B_4403	VESKQRVSY	120.000
244	HCV 3a	43	6	10	A1	TVESKQRVSY	90.000
245	HCV 3a	43	14	10	A24	SYENpKGVFF	150.000
246	HCV 3a	43	19	10	A24	KGVFfEVHIL	12.000
247	HCV 3a	43	13	10	B_3501	VSYEnPKGVF	10.000
248	HCV 3a	44	16	9	A_0201	SQTERIWLM	35.624
249	HCV 3a	44	35	9	A_0201	ALYPNFDRA	14.801
250	HCV 3a	44	1	9	A_0201	MMVVGIGVV	10.468
251	HCV 3a	44	29	9	B_4403	KERTSFALY	120.000
252	HCV 3a	44	1	10	A_0201	MMVVgIGVVV	35.012
253	HCV 3a	44	26	10	A_0201	LLDKeRTSFA	18.580
254	HCV 3a	44	20	10	A3	RIWLmALLDK	30.000
255	HCV 3a	44	14	10	B_3501	KSSQtERIWL	15.000

256	HCV 3a	44	15	10	B_3501	SSQTeRIWLM	10.000
257	HCV 3a	45	7	9	A_0201	FTLDARSFT	39.723
258	HCV 3a	45	1	9	A_0201	MVSMRAFTL	18.430
259	HCV 3a	45	13	9	A24	SFTSFNTVL	20.000
260	HCV 3a	45	6	9	A24	AFTLDARSF	10.000
261	HCV 3a	45	1	9	в7	MVSMRAFTL	20.000
262	HCV 3a	45	9	9	B_4403	LDARSFTSF	15.000
263	HCV 3a	45	12	10	B_3501	RSFTsFNTVL	10.000
264	HCV 3a	46	35	9	A1	TVDQESQLK	10.000
265	HCV 3a	46	27	9	A_0201	TLCSSLSLT	17.140
266	HCV 3a	46	101	9	в7	SARNAADTL	120.000
267	HCV 3a	46	64	9	в7	SPPGEGGTL	80.000
268	HCV 3a	46	78	9	в7	CVSTPEEEL	30.000
269	HCV 3a	46	101	9	в8	SARNAADTL	16.000
270	HCV 3a	46	64	9	B_3501	SPPGEGGTL	30.000
271	HCV 3a	46	84	9	B_4403	EELFSSCGF	80.000
272	HCV 3a	46	56	9	B_4403	DEHDSESDS	12.000
273	HCV 3a	46	8	10	A_0201	ALHGVIRAPV	69.552
274	HCV 3a	46	27	10	A_0201	TLCSsLSLTV	69.552
275	HCV 3a	46	33	10	A_0201	SLTVdQESQL	21.362
276	HCV 3a	46	70	10	A_0201	GTLEVVLDCV	16.515
277	HCV 3a	46	19	10	A24	EYDIeQQTTL	200.000
278	HCV 3a	46	46	10	B <b>7</b>	SPGSpSRGGM	30.000
279	HCV 3a	46	100	10	В7	ASARnAADTL	12.000
280	HCV 3a	46	46	10	B_3501	SPGSpSRGGM	40.000
281	HCV 3a	46	83	10	B_4403	EEELfSSCGF	40.000
282	HCV 3a	47	2	10	A3	LLPISCRHNK	20.000
283	HCV 3a	47	3	10	в7	LPISCRHNKL	80.000
284	HCV 3a	47	6	10	B8	SCRHnKLAFT	16.000
285	HCV 3a	47	3	10	в8	LPISCRHNKL	16.000
286	HCV 3a	47	3	10	B_3501	LPISCRHNKL	20.000
287	HCV 3a	48	11	9	в7	HVRGPASRM	75.000
288	HCV 3a	48	14	9	B_3501	GPASRMDPF	20.000
289	HCV 3a	48	3	10	A_0201	KVPChMLAHV	48.991
290	HCV 3a	48	14	10	B_3501	GPASrMDPFF	20.000
291	HCV 3a	49	10	9	A_0201	IILAESHDL	18.476
292	HCV 3a	49	29	9	A_0201	QMIRSQSSL	15.428
293	HCV 3a	49	32	9	A24	RSQSSLQGL	14.400 30.000
294	HCV 3a	49	11	9	A3	ILAESHDLK	80.000
295	HCV 3a	49	4	9	B7	SPGSAGIIL	20.000
296	HCV 3a	49	4	9	B_3501	SPGSAGIIL	10.000
297	HCV 3a	49	32	9	B_3501	RSQSSLQGL	12.000
298	HCV 3a	49	28	10	B7	SQMIrSQSSL VTEAVNAIR	45.000
299	HCV 3a	50	123	9	A1		25.000
300	HCV 3a	50	104	9	A1	ATHPPSMLK	15.000
301	HCV 3a	50	47	9	A1	GSSPPMILK	722.126
302	HCV 3a	50	109	9	A_0201	SMLKNIVWL	238.129
303	HCV 3a	50	95	9	A_0201	ELWGPAKWV	71.386
304		50	110	9	A_0201		38.273
305		50	148	9	A_0201		14.634
306		50	122	9	A_0201	LVTEAVNAI WLVVRGLVT	14.054
307	HCV 3a	50	116	9	A_0201	MATIA ATZZTIA T	

308	HCV 3a	50	161	9	A_0201	KASSFCQLV	12.848
309	HCV 3a	50	19	9	A_0201	SMAAHITPT	12.379
310	HCV 3a	50	114	9	A_0201	IVWLVVRGL	12.132
311	HCV 3a	50	74	9	A_0201	TLPRPIPPM	11.426
312	HCV 3a	50	174	9	A_0201	SMTACCWVA	11.033
313	HCV 3a	50	188	9	A_0201	RTFSLNWWA	10.531
314	HCV 3a	50	146	9	A24	RYWIPLTKF	220.000
315	HCV 3a	50	129	9	в7	AIRDATAGL	120.000
316	HCV 3a	50	143	9	в7	RPARYWIPL	80.000
317	HCV 3a	50	62	9	В7	TPAPYPARM	20.000
318	HCV 3a	50	75	9	в7	LPRPIPPMA	20.000
319	HCV 3a	50	114	9	в7	IVWLVVRGL	20.000
320	HCV 3a	50	103	9	в7	VATHPPSML	18.000
321	HCV 3a	50	27	9	в7	TTRAPGDSM	15.000
322	HCV 3a	50	67	9	в7	PARMSSKTL	12.000
323	HCV 3a	50	143	9	B_3501	RPARYWIPL	40.000
324	HCV 3a	50	62	9	_ В_3501	TPAPYPARM	40.000
325	HCV 3a	50	186	9	B_3501	NPRTFSLNW	30.000
325	HCV 3a	50	58	9	B_3501	KAPETPAPY	24.000
327	HCV 3a	50	94	9	B_4403	EELWGPAKW	36.000
328		50	141	9	B_4403	VERPARYWI	12.000
329	HCV 3a	50	109	10	A_0201	SMLKnIVWLV	3.206.057
330		50	157	1.0	A_0201	CLCQkASSFC	27.324
331		50	121	10	A_0201	GLVTeAVNAI	23.995
332		50	114	10	A_0201	IVWLvVRGLV	11.163
	_	50	87	10	A24	KPLTTNAEEL	13.200
333		50	45	10	в7	AVGSsPPMIL	90.000
334		50	66	10	в7	YPARmSSKTL	80.000
335 336		50	87	10	в7	KPLTtNAEEL	80.000
337		50	149	10	B7	IPLTKFHICL	80.000
338		50	80	10	в7	PPMAaPAKPL	36.000
339	_	50	75	10	в7	LPRPiPPMAA	30.000
340		50	102	10	в7	WVAThPPSML	30.000
341		50	11	10	в7	SPGPtCRRSM	30.000
342		50	128	1.0	в7	NAIRdATAGL	12.000
343		50	118	10	в7	VVRG1VTEAV	10.000
344	_	50	11	10	в_3501	SPGPtCRRSM	40.000
345		50	87	10		KPLTtNAEEL	40.000
346		50	186	10	B_3501	NPRTfSLNWW	30.000
345			149	10	_	IPLTKFHICL	20.000
348			66	10		YPARmSSKTL	20.000
349			163	10		SSFCqLVATM	10.000
350			33	10		DSMAGNRLTM	10.000
35:			43	10		SSAVgSSPPM	10.000
35.			93	10		AEELwGPAKW	36.000
			94	10		EELWgPAKWV	18.000
35: 35:			124	10		_	12.000
			6	9	B_4403		120.000
35			5	10		ACEHSSISSY	45.000
35			3	9	A_0201		31.359
35			3 7	9	A_0201 A_0201		15.537
35						RYKRGVGPC	10.000
35	9 HCV 3a	. 52	23	9	A24	MIMGVGEC	<u></u> 0 ·

360	HCV 3a	52	27	9	в7	GVGPCSVGL	20.000
361	HCV 3a	52	35	9	в8	LSRTRHFHV	12.000
362	HCV 3a	52	34	10	A_0201	GLSRtRHFHV	403.402
363	HCV 3a	52	23	10	A24	RYKRgVGPCS	14.000
364	HCV 3a	52	26	10	A24	RGVGpCSVGL	12.000
365	HCV 3a	52	15	10	B_3501	ISFWtGPNRY	10.000
366	HCV 3a	53	21	9	A1	MTESKSPVY	225.000
367	HCV 3a	53	20	9	A_0201	SMTESKSPV	205.951
368	HCV 3a	53	46	9	A_0201	GMTDTSRPL	12.651
369	HCV 3a	53	17	9	A3	TLQSMTESK	20.000
370	HCV 3a	53	13	9	B_3501	CSTATLQSM	10.000
371	HCV 3a	53	45	10	в7	VGMTdTSRPL	12.000
372	HCV 3a	53	23	10	в_3501	ESKSpVYPVM	30.000
373	HCV 3a	53	9	10	B_3501	KSTYCSTATL	10.000
374	HCV 3a	53	22	10	B_4403	TESKsPVYPV	12.000
375	HCV 3a	54	7	9	A_0201	VMLPGGVRV	315.959
376	HCV 3a	54	6	10	A_0201	$ ext{TVMLpGGVRV}$	22.517
377	HCV 3a	54	8	10	A3	MLPGgVRVAK	45.000
378	HCV 3a	54	12	10	в7	GVRVaKTVSL	200.000
379	HCV 3a	54	12	10	B8	GVRVaKTVSL	80.000
380	HCV 3a	55	12	9	B_4403	DGFSTRTVY	13.500
381	HCV 3a	55	5	10	B_3501	KPSVaATDGF	40.000
382	HCV 3a	55	11	10	B_4403	TDGFsTRTVY	22.500
383	HCV 3a	55	2	10	B_4403	KEPKpSVAAT	12.000
384	HCV 3a	56	40	9	A_0201	GLGLSKLAV	69.552
385	HCV 3a	56	65	9	A24	KYKSAEPQA	10.000
386	HCV 3a	56	45	9	A3	KLAVESPLR	12.000
387	HCV 3a	56	33	9	в7	EPLRQARGL	80.000
388	HCV 3a	56	8	9	в7	TPLVHTAAL	80.000
389	HCV 3a	56	2	9	в7	NCRAFATPL	40.000
390	HCV 3a	56	2	9	В8	NCRAFATPL	16.000
391	HCV 3a	56	8	9	B_3501	TPLVHTAAL	20.000
392	HCV 3a	56	33	9	B_3501	EPLRQARGL	20.000
393	HCV 3a	56	58	9	B_3501	TSASRVTKY	10.000
394	HCV 3a	56	49	9	B_3501	ESPLRRAGM	10.000
395	HCV 3a	56	58	9	B_4403	TSASRVTKY	40.500
396	HCV 3a	56	68	10	A1	SAEPqAHGSR	90.000
397	HCV 3a	56	56	10	A3	GMTSaSRVTK	60.000
398		56	45	10	A3	KLAVeSPLRR	24.000
399		56	37	10	B7	QARGIGLSKL	120.000 80.000
400		56	70	10	B7 - <del>-</del>	EPQAhGSRDL	12.000
401		56	7	10	B7	ATPLVHTAAL	12.000
402		56	18	10	в7	IPATCPEGHI	16.000
403		56	37	10	B8	QARGLGLSKL	16.000
404		56	34	10	B8	PLRQaRGLGL	20.000
405			70	10		EPQAhGSRDL	15.000
406			43	10		LSKLaVESPL	20.250
407			57	10			10.433
408			2	9	A_0201	TLISMGLNI	16.000
409			21	9	B_3501		33.750
410			27	9	B_4403		16.000
411	. HCV 3a	57	16	10	в8	TARSLRPAAA	10.000

412	HCV 3a	58	13	9	A1	ITERTSMQR	11.250
413	HCV 3a	58	5	9	A_0201	IIWKYFPPI	38.458
414	HCV 3a	58	1	9	A3	MLSMIIWKY	27.000
415	HCV 3a	58	5	10	A_0201	IIWKyFPPIT	22.525
416	HCV 3a	58	8	10	A24	KYFPpitert	16.800
417	HCV 3a	58	10	10	в7	FPPItERTSM	30.000
418	HCV 3a	58	10	10	B_3501	FPPItERTSM	60.000
419	HCV 3a	59	52	9	A24	KTPAPRVAL	12.000
420	HCV 3a	59	38	9	A3	CLYQGDKVK	50.000
421	HCV 3a	59	31	9	в7	HIRRPIQCL	60.000
422	HCV 3a	59	6	9	B7	LPRASKGGT	20.000
423	HCV 3a	59	47	9	B_3501	KPKRAKTPA	12.000
424	HCV 3a	59	19	9	B_4403	ADSHLHMVY	30.000
425	HCV 3a	59	18	10	A1	RADShLHMVY	125.000
426	HCV 3a	59	59	10	A_0201	ALSSpDHAYA	27.324
427	HCV 3a	59	38	10	A3	CLYQgDKVKK	100.000
428	HCV 3a	59	24	10	A3	HMVYwFHHIR	18.000
429	HCV 3a	59	77	10	в7	KARGqRPVRL	120.000
430	HCV 3a	59	77	10	B8	KARGqRPVRL	160.000
431	HCV 3a	59	77	10	B_3501	KARGqRPVRL	18.000
432	HCV 3a	60	2	9	A_0201	RMTNSHFSA	20.810
433	HCV 3a	60	5	10	B_3501	NSHFSAHPTM	10.000
434	HCV 3a	61	68	9	A_0201	TLNNVKLTV	69.552
435	HCV 3a	61	66	9	A_0201	ILTLNNVKL	36.316
436	HCV 3a	61	51	9	A_0201	QLQAAVNRC	11.426
437	HCV 3a	61	61	9	B7	NPPTNILTL	80.000
438	HCV 3a	61	44	9	в7	SQRSPLVQL	60.000
439	HCV 3a	61	61	9	B_3501	NPPTNILTL	20.000
440	HCV 3a	61	66	10	A_0201	ILTLnNVKLT	29.137
441	HCV 3a	61	65	10	A_0201	NILTINNVKL	10.868
442	HCV 3a	61	6	10	В7	CIRPvDSAGM	10.000
443	HCV 3a	61	8	10	B_3501	RPVDsAGMGV	16.000
444	HCV 3a	61	40	10	B_3501	RSSIsQRSPL	10.000
445	HCV 3a	62	14	9	A24	LYVASGCFL	300.000
446	HCV 3a	62	21	9	A3	FLKQSVGQK	18.000
447	HCV 3a	62	13	10	A_0201	RLYVaSGCFL	375.978
448	HCV 3a	63	9	9	A_0201	VLTNPVEFI	109.935
449	HCV 3a	63	6	9	в7	APHVLTNPV	12.000
450	HCV 3a	63	32	9	B_3501	SSRNTSVSF	15.000
451	HCV 3a	63	4	9	B_4403	GEAPHVLTN	14.400
452	HCV 3a	6 <b>4</b>	15	9	A_0201	VMGLQLLSL	60.325
453	HCV 3a	64	4	9	в7	SVKGPHPCL	30.000
454	HCV 3a	64	14	10	A_0201	KVMGLQLLSL	55.674
455	HCV 3a	64	14	10	A24	KVMGLQLLSL	12.000
456	HCV 3a	64	9	10	в7	HPCLkKVMGL	80.000
457	HCV 3a	64	14	10	в7	KVMGlQLLSL	60.000
458	HCV 3a	64	7	10	B7	GPHPcLKKVM	20.000
459	HCV 3a	64	3	10	в7	ASVKgPHPCL	18.000
460	HCV 3a	64	9	10	B8	HPCLkKVMGL	16.000
461	HCV 3a	64	7	10	B_3501	GPHPcLKKVM	40.000
462	HCV 3a	64	9	10	B_3501	HPCLkKVMGL	20.000
463	HCV 3a	65	15	9	A_0201	LLMCHEPLV	437.482

464	HCV 3a	65	14	9	A_0201	VLLMCHEPL	65.841
465	HCV 3a	65	5	9	A_0201	FMDSLQFRA	38.291
466	HCV 3a	65	8	9	A_0201	SLQFRAVLL	21.362
467	HCV 3a	65	22	9	A_0201	LVLTSCSFC	15.038
468	HCV 3a	65	16	9	A_0201	LMCHEPLVL	10.754
469	HCV 3a	65	19	9	B_4403	HEPLVLTSC	13.500
470	HCV 3a	65	14	10	A_0201	VLLMCHEPLV	437.482
471	HCV 3a	65	23	10	A_0201	VLTScSFCWA	88.257
472	HCV 3a	65	15	10	A_0201	LLMChEPLVL	55.091
473	HCV 3a	65	5	10	A_0201	FMDS1QFRAV	35.122
474	HCV 3a	65	16	10	A_0201	LMCHePLVLT	21.044
475	HCV 3a	65	29	10	A_0201	FCWApTLKRL	12.246
476	HCV 3a	65	8	10	A_0201	${ t SLQFrAVLLM}$	11.426
<b>477</b>	HCV 3a	65	13	10	в7	AVLLmCHEPL	60.000
478	HCV 3a	65	15	10	в7	LLMChEPLVL	12.000
479	HCV 3a	65	2	10	B_3501	NPVFmDSLQF	30.000
480	HCV 3a	65	20	10	B_3501	EPLVLTSCSF	20.000
481	HCV 3a	66	1	9	A_0201	MMIATLAQL	60.325
482	HCV 3a	67	8	9	A_0201	IMSNKVWGT	157.827
483	HCV 3a	67	48	9	A_0201	SEQLQVWTV	23.329
484	HCV 3a	67	30	9	A24	QFIIISQAI	12.600
485	HCV 3a	67	43	9	A24	RWPGYSEQL	12.000
486	HCV 3a	67	24	9	в7	IPRAGNQFI	80.000
487	HCV 3a	67	1	9	в7	MPQWAPAIM	20.000
488	HCV 3a	67	5	9	в7	APAIMSNKV	12.000
489	HCV 3a	67	1	9	B_3501	MPQWAPAIM	40.000
490	HCV 3a	67	24	9	B_3501	IPRAGNQFI	24.000
491	HCV 3a	67	48	9	B_4403	SEQLQVWTV	24.000
492	HCV 3a	67	7	10	A_0201	AIMSnKVWGT	65.398
493	HCV 3a	67	55	10	A_0201	TVWWrRGLNV	50.512
494	HCV 3a	67	12	10	A_0201	KVWGtRRTCA	12.628
495	HCV 3a	67	50	10	A3	QLQVwTVWWR	36.000
496	HCV 3a	67	61	10	A3	GLNVkACPTR	12.000
497	HCV 3a	67	24	10	в7	IPRAGNQFII	80.000
498	HCV 3a	67	24	10	B_3501	IPRAGNQFII	24.000
499	HCV 3a	67	5	10	B_3501	APAImSNKVW	10.000
500	HCV 3a	67	48	10	B_4403	SEQLqVWTVW	54.000
501	HCV 3a	67	22	10	B_4403	TAIPrAGNQF	15.000
502	HCV 3a	68	9	9	A_0201	ILLLEQSLV	437.482
503	HCV 3a	68	8	9	A_0201	TILLLEQSL	10.868
504	HCV 3a	68	10	9	A3	LLLEQSLVR	18.000
505	HCV 3a	68	4	9	B7	SASYTILLL	12.000
506	HCV 3a	68	10	10	A_0201	LLLEGSLVRT	442.013
507	HCV 3a	68	8	10	A_0201	TILLLEQSLV	35.385
508	HCV 3a	68	9	10	A3	ILLLeQSLVR	12.000 120.000
509	HCV 3a	69	42	9	B7	HPAHPQPSL	20.000
510	HCV 3a	69	12	9	B7	RVSMTLPKL	20.000
511	HCV 3a	69	42	9	B_3501 B7	HPAHPQPSL	80.000
512	HCV 3a	69	8	10	в7 в7	NPHVrVSMTL EDRGGRSHPA	20.000
513	HCV 3a	69	35	10	в7 в7	EPRGdRSHPA	12.000
514	HCV 3a	69	2	10		YPMRSANPHV	32.000
515	HCV 3a	69	35	10	B8	EPRGdRSHPA	32.000

WO 2004/011650 PCT/EP2003/008112

- 132 -

516	HCV 3a	69	8	10	B_3501	NPHVrVSMTL	20.000
517	HCV 3a	69	19	10	B_3501	KLRDLRRGSF	12.000
518	HCV 3a	70	3	9	A_0201	FLLVFLCGL	3.177.760
519	HCV 3a	70	15	9	A_0201	LMLHGLRDL	44.641
520	HCV 3a	70	7	9	A_0201	FLCGLGSVL	40.289
521	HCV 3a	70	1	9	A_0201	MVFLLVFLC	36.475
522	HCV 3a	70	30	9	A24	PYQAVPQGL	50.400
523	HCV 3a	70	37	9	A3	GLSRPNTTR	18.000
524	HCV 3a	70	38	9	в7	LSRPNTTRL	40.000
525	HCV 3a	70	40	9	в7	RPNTTRLVI	12.000
526	HCV 3a	70	23	9	B_3501	LPGHSQAPY	40.000
527	HCV 3a	70	40	9	B_3501	RPNTTRLVI	16.000
528	HCV 3a	70	38	9	B_3501	LSRPNTTRL	15.000
529	HCV 3a	70	14	10	A_0201	VLMLhGLRDL	61.810
530	HCV 3a	70	7	10	A_0201	FLCGLGSVLM	22.853
531	HCV 3a	70	37	10	A_0201	GLSRpNTTRL	21.362
532	HCV 3a	70	5	10	A_0201	LVFLcGLGSV	11.446
533	HCV 3a	70	6	10	A24	VFLCgLGSVL	36.000
534	HCV 3a	70	2	10	A24	abla FLCGL	30.000
535	HCV 3a	70	29	10	в7	APYQaVPQGL	240.000
536	HCV 3a	70	14	10	в7	VLMLhGLRDL	12.000
537	HCV 3a	70	29	10	B_3501	APYQaVPQGL	20.000

PCT/EP2003/008112

- 133 -

Table 4k 3b (1-3)

No	Strain	ORF	Start	AA	ньа	Peptide sequence	Score
1	HCV 3b	1	2	9	A_0201	ALVRVSCSL	21,36
2	HCV 3b	1	1	10	в7	MALVRVSCSL	12
3	HCV 3b	1	2	9	в7	ALVRVSCSL	12
4	HCV 3b	2	79	9	A1	GVDPATWVR	50
5	HCV 3b	2	79	10	A1	GVDPaTWVRS	10
6	HCV 3b	2	24	10	A1	LADGvSLPPR	10
7	HCV 3b	2	75	9	A_0201	KMTPGVDPA	14,15
8	HCV 3b	2	75	10	A_0201	KMTPgVDPAT	18,84
9	HCV 3b	2	68	10	A_0201	VLAPaGAKMT	12,67
10	HCV 3b	2	40	9	в7	GPGPSPGTL	80
11	HCV 3b	2	10	9	в7	WVCAKQVRL	20
12	HCV 3b	2	15	10	В7	QVRLpSDHNL	200
13	HCV 3b	2	40	9	B_3501	GPGPSPGTL	20
14	HCV 3b	2	77	9	B_3501	TPGVDPATW	15
15	HCV 3b	3	2	10	A_0201	RLAYICLPTT	17,14
16	HCV 3b	3	8	10	в7	LPTTaPTGAL	120
17	HCV 3b	3	8	10	B_3501	LPTTaPTGAL	20
18	HCV 3b	4				no hits	
19	HCV 3b	5				no hits	
20	HCV 3b	6				no hits	
21	HCV 3b	7	8	10	A_0201	ALHPhRWWWA	348,38
22	HCV 3b	7	17	10	в7	APLI1KACQL	240
23	HCV 3b	7	10	10	в7	HPHRWWWAPL	80
24	HCV 3b	7	10	10	B_3501	HPHRWWWAPL	20
25	HCV 3b	7	17	10	В_3501	APLILKACQL	20
26	HCV 3b	8	5	10	в7	LPAAgPGPGL	120
27	HCV 3b	8	11	9	B_3501	GPGLRQGVW	10
28	HCV 3b	9	12	9	A1	RGESAVILK	22,5
29	HCV 3b	9	17	9	A_0201	VILKIVTAV	138,35
30	HCV 3b	9	16	10	A_0201	AVILKIVTAV	40
31	HCV 3b	9 10	10 50	10 9	В7 A_0201	TGRGESAVIL CLFEVVGTV	315,48
32 33	HCV 3b	10	45	10	A_0201	YGSPPCLFEV	27,86
34	HCV 3b	10	44	9	A24	KYGSPPCLF	200
35	HCV 3b	10	16	10	A24	PYHHGISTGL	28
36		10	27	10	A3	VLSGGTSMPY	12
37	HCV 3b	10	26	9	в7	AVLSGGTSM	15
38	HCV 3b	10	28	9	B_3501	LSGGTSMPY	10
39	HCV 3b	10	8	10	B_3501	CSCSsGSLPY	10
40	HCV 3b	10	37	9	B_4403	AGVRPPCKY	18
41	HCV 3b	11	86	9	A_0201	KLGDYLELL	345,48
42	HCV 3b	11	26	9	A_0201	SLVLWRLRL	21,36
43	HCV 3b	11	55	10	A_0201	RGWAASCCWV	20,73
44	HCV 3b	11	79	9	A24	RSQHTPSKL	13,2
45	HCV 3b	11	19	9	A24	RWPRSPSSL	12
46	HCV 3b	11	89	9	A24	DYLELLSPA	10,8
47	HCV 3b	11	10	10	A3	GLPRVSKDWR	12
4.8	HCV 3b	11	83	9	в7	TPSKLGDYL	80

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						LIDD OD OG Z I I	60
49	HCV 3b	11	20	9	B7	WPRSPSSLV	36
50	HCV 3b	11	58	9	в7	AASCCWVRL	800
51	HCV 3b	11	20	10	в7	WPRSPSSLVL	80
52	HCV 3b	11	23	10	в7	SPSSLVLWRL	12
53	HCV 3b	11	57	10	в7	WAASCCWVRL	16
54	HCV 3b	11	20	10	B8	WPRSPSSLVL	20
55	HCV 3b	11	83	9	B_3501	TPSKLGDYL	12
56	HCV 3b	11	20	9	B_3501	WPRSPSSLV	10
57	HCV 3b	11	79	9	B_3501	RSQHTPSKL	60
58	HCV 3b	11	20	10	B_3501	WPRSPSSLVL	30
59	HCV 3b	11	11	10	B_3501	LPRVSKDWRW	20
60	HCV 3b	11	23	10	B_3501	SPSSLVLWRL	120
61	HCV 3b	11	44	10	B_4403	AETSCAGCPF	271,95
62	HCV 3b	12	2	9	A_0201	VLGRGLLLV	11,76
63	HCV 3b	12	1	9	A_0201	MVLGRGLLL	88,04
64	HCV 3b	12	1	10	A_0201	MVLGRGLLLV	11,95
65	HCV 3b	12	2	10	A_0201	VLGRGLLLVT	200
66	HCV 3b	12	13	9	B7	GPRFKCTPM	20
67	HCV 3b	12	1	9	37	MVLGRGLLL	80
68	HCV 3b	12	13	9	B8	GPRFKCTPM	120
69	HCV 3b	12	13	9	B_3501	GPRFKCTPM GPRFKCTPMW	30
70	HCV 3b	12	13	10	B_3501	no hits	50
71	HCV 3b	13	22	10	в7	TPHTaSSSPM	20
72	HCV 3b	14	22	10	в7	ASSSpMGVVL	12
73	HCV 3b	14	26 22	10	в_3501	TPHTaSSSPM	40
74	HCV 3b	14	22	10	B_3301	no hits	
75	HCV 3b	15				no hits	
76	HCV 3b	16 17	5	9	в7	VPGMTYNLL	80
77	HCV 3b	17	4	9	в7	VVPGMTYNL	20
78	HCV 3b	17	4	10	в7 в7	VVPGMTYNLL	20
79 80		17	3	10	в7	QVVPGMTYNL	20
81		17	5	9	в_3501	VPGMTYNLL	20
82		18	3		2_000	no hits	
83		19				no hits	
84		20	11	9	A_0201	LLTSSKHRL	36,32
85		20	10	10		LLLTSSKHRL	134,37
86		20	3	9	A24	RWKNVPSLL	11,2
87		20	1	10	в7	MMRWKNVPSL	40
88		20	31	10	в8	CCKGRANKKL	16
89		21				no hits	
90		22				no hits	
91		23	26	9	A_0201	CQAYPFSHV	13,4
92		23	9	10	A24	SYLVtLRPGF	180
93		23	37	9	в7	GTREYGEGM	10
94		23	19	10	в7	RPRScPRCQA	45
95	HCV 3b	23	23	9	B_3501	CPRCQAYPF	60
96		23	21	9	B_3501	RSCPRCQAY	20
97		23	37	9	B_3501	GTREYGEGM	12
98		23	2	9	B_3501	TSGTGSVSY	10
99		24	6	9	A_0201	SMNTPLGRV	15,02
10	00 HCV 3b	24	2	10	B7	APSPSMNTPL	240

- 135 -

						20
<b>101</b> HCV 3b	24	17	10	в7	SPRTITRVPC	30
<b>102</b> HCV 3b	24	2	10	B_3501		20
103 HCV 3b	25	9	10	A_0201	ILITWWGPRT	12,67 40
<b>104</b> HCV 3b	25	1	10	B7	MSRCVGWGIL	15
105 HCV 3b	25	1	10	B_3501	MSRCvGWGIL	13
106 HCV 3b	26	1	0	n 0201	no hits MQMGPSFHA	18,38
107 HCV 3b	27	1	9	A_0201	MGRMcPRHSL	90
108 HCV 3b	28	1	10 9	в7 A_0201	MLTLGPPSV	118,24
109 HCV 3b	29	1	9	B7	AVLCHTPGL	60
110 HCV 3b	29	18	9	в7 В7	KSRAWFAVL	40
111 HCV 3b	29 29	12 17	10	в7	FAVLCHTPGL	12
112 HCV 3b			9	B8	TPKSRAWFA	16
113 HCV 3b	29 29	10 12	9	B_3501		30
114 HCV 3b		10	10	B_3501	TPKSRAWFAV	12
		10	Τ.0	D_550±	no hits	
116 HCV 3b					no hits	
118 HCV 3b		50	10	A_0201	ALAAsCLPAL	49,13
119 HCV 3b		48	9	B7	AAALAASCL	36
120 HCV 3b		11	9	в7	NVVTLNQRL	20
121 HCV 3b		51	9	в7	LAASCLPAL	12
122 HCV 3b		43	9	в7	NAVIAAAAL	12
123 HCV 3b		16	10	в7	NORLGROSAL	40
124 HCV 3b		47	1.0	в7	AAAALAASCL	36
125 HCV 3b		50	10	в7	ALAASCLPAL	12
126 HCV 3b		16	10	В8	NQRLGRQSAL	24
127 HCV 3b					no hits	
128 HCV 3b		8	9	в7	TTRSMPGNL	4 O
129 HCV 3b		3	10	B_3501	GSFLGTTRSM	10
130 HCV 3b		4	9	в7	APPRFSPQL	240
131 HCV 3h	35	3	10	в7	LAPPRFSPQL	12
132 HCV 3b	35	4	9	B_3501	APPRFSPQL	20
133 HCV 3k	36	32	9	A1	RVDPKSCEY	250
134 HCV 3h	36	40	9	A_0201	YVGGPANAV	28
135 HCV 31	36	60	10	A24	RVPCgTSVHL	-12
136 HCV 31	36	61	9	в7	VPCGTSVHL	80
137 HCV 31	36	6	10	в7	RNRQQQHIVL	40
138 HCV 31	36	40	10	в7	YVGGPANAVL	20
139 HCV 31	36	60	10	в7	RVPCGTSVHL	20
140 HCV 31	36	61	9	B_3501	VPCGTSVHL	20
<b>141</b> HCV 31	37	2	10	A1	CVDEqYRVCK	20
142 HCV 31	o 37	12	10	A_0201	DLWGsPLQHL	30,59
143 HCV 31	b 37	9	10		VCKD1WGSPL	24
<b>144</b> HCV 3	b 37	4	10	B_4403	DEQYrVCKDL	27
<b>145</b> HCV 31					no hits	25
146 HCV 3		108	9	A1	SADNLWFDR	25
<b>147</b> HCV 3		2	9	A_0201		52,03
148 HCV 3		151	9		RVLYLITMV	51,79
149 HCV 3		111	9		NLWFDRPVA	16,91
150 HCV 3		1	10		MLIYTYAPPV	118,24 12
151 HCV 3		124	9	A24		12
<b>152</b> HCV 3	b 39	80	10	A24	RPQRsGTTGL	12

PCT/EP2003/008112

WO 2004/011650

- 136 -

<b>153</b> HCV 3b	39	90	9	A3	RLVPGCILR	18
<b>154</b> HCV 3b	39	35	9	A3	GLGSQVGVR	10,8
<b>155</b> HCV 3b	39	90	10	A3	RLVPgCILRR	27
<b>156</b> HCV 3b	39	35	10	A3	GLGSqVGVRR	18
<b>157</b> HCV 3b	39	147	9	в7	APAPRVLYL	240
<b>158</b> HCV 3b	39	124	9	в7	RPPAPSACL	120
<b>159</b> HCV 3b	39	149	9	B7	APRVLYLIT	60
<b>160</b> HCV 3b	39	39	9	B7	QVGVRRPRL	30
<b>161</b> HCV 3b	39	92	9	В7	VPGCILRRM	20
<b>162</b> HCV 3b	39	149	10	в7	APRV1YLITM	600
<b>163</b> HCV 3b	39	80	10	в7	RPQRsGTTGL	80
<b>164</b> HCV 3b	39	88	10	в7	GLRLvPGCIL	60
<b>165</b> HCV 3b	39	51	10	в7	GGRTrVCGPL	40
<b>166</b> HCV 3b	39	147	10	в7	APAPrVLYLI	24
<b>167</b> HCV 3b	39	146	10	в7	GAPApRVLYL	12
<b>168</b> HCV 3b	39	147	9	в8	APAPRVLYL	16
<b>169</b> HCV 3b	39	19	9	в8	EHRGRAIPL	16
<b>170</b> HCV 3b	39	146	10	В8	GAPApRVLYL	16
<b>171</b> HCV 3b	39	58	9	B_3501	GPLDDVTDF	60
<b>172</b> HCV 3b	39	92	9	B_3501	VPGCILRRM	40
<b>173</b> HCV 3b	39	124	9	B_3501	RPPAPSACL	40
<b>174</b> HCV 3b	39	147	9	B_3501	APAPRVLYL	20
<b>175</b> HCV 3b	39	83	9	B_3501	RSGTTGLRL	10
<b>176</b> HCV 3b	39	149	10	B_3501	APRVLYLITM	120
<b>177</b> HCV 3b	39	80	10	B_3501	RPQRsGTTGL	40
<b>178</b> HCV 3b	39	105	10	B_3501	EARSaDNLWF	13,5
<b>179</b> HCV 3b	39	78	9	B_4403	AERPQRSGT	16
<b>180</b> HCV 3b	39	104	9	B_4403	GEARSADNL	12
<b>181</b> HCV 3b	39	23	9	B_4403	RAIPLWCWF	10
<b>182</b> HCV 3b	39	104	10	B_4403	GEARSADNLW	36
183 HCV 3b	39	78	10	B_4403	AERPqRSGTT	16
<b>184</b> HCV 3b	39	145	10	B_4403	RGAPaPRVLY	12
185 HCV 3b	40				no hits	
186 HCV 3b	41	2	9	в7	APTVPDLSI	36
187 HCV 3b	41	11	9	B_3501	RPANSGTIW	20
188 HCV 31	42	3	10	B_3501	RARRYLHTGY	36
<b>189</b> HCV 31	5 43	4	10	A1	TPEAdSARPY	11,25
<b>190</b> HCV 31	5 43	4	10	B_3501	TPEAdSARPY	12
<b>191</b> HCV 31	o 43	5	9	B_4403	PEADSARPY	36
192 HCV 31	o 44	17	9	в7	AIQGQSPRL	12
<b>193</b> HCV 31	b 44	16	10	В7	SAIQgQSPRL	12
194 HCV 31	b 44	5	10	B_3501	CSLHrASTGY	10
195 HCV 31	b 44	5	10	B_4403	CSLHrASTGY	13,5
196 HCV 31	b 45	2	9	B_4403	AESGGVLAT	36
<b>197</b> HCV 31	b 45	7	9	A_0201	VLATAHVEL	36,32
198 HCV 31	b 45	35	9	A24	GFPYGLHRL	30
<b>199</b> HCV 31	b 45	31	10	в7	QPCRgFPYGL	80
200 HCV 3	b 45	6	10	в7	GVLAtAHVEL	20
201 HCV 3	b 45	47	10	В7	PPHNqPDYVL	12
202 HCV 3	b 45	46	9	B_3501	QPPHNQPDY	40
203 HCV 3	b 45	31	10	B_3501	QPCRgFPYGL	20
204 HCV 3	b 45	5 2	9	B_4403	AESGGVLAT	36

- 137 -

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205 HCV 3b	45	2	10	B_4403	AESGgVLATA	27
206 HCV 3b	46	28	10	A24	SGEPCITNTL	12.096
207 HCV 3b	46	24	10	В7	SVRIsGEPCI	20.000
208 HCV 3b	46	38	10	В8	CPRETRGSKS	12.000
209 HCV 3b	46	44	10	B_3501	GSKSnSIAEL	15.000
210 HCV 3b	46	38	10	в_3501	CPRETRGSKS	12.000
<b>211</b> HCV 3b	46	51	9	B_4403	AELSNRHPI	16.000
212 HCV 3b	46	19	9	B_4403	DEQTHSVRI	12.000
213 HCV 3b	46	19	10	B_4403	DEQThSVRIS	36.000
214 HCV 3b	46	51	10	B_4403	AELSnRHPIA	16.000
<b>215</b> HCV 3b	47	24	10	A_0201	RLYRtRKEWV	599.816
<b>216</b> HCV 3b	47	17	9	в7	NALPLWGRL	12.000
217 HCV 3b	47	1	9	B_3501	MSKGVQGSM	30.000
<b>218</b> HCV 3b	47	17	10	B_4403	NALPlWGRLY	12.000
<b>219</b> HCV 3b	48	1	9	В7	MPGASARVL	80.000
<b>220</b> HCV 3b	48	16	9	В7	EAPPLCSSL	12.000
<b>221</b> HCV 3b	48	11 ·	10	в7	RVRRSEAPPL	200.000
222 HCV 3b	48	1	9	B_3501	MPGASARVL	20.000
<b>223</b> HCV 3b	48	15	9	B_4403	SEAPPLCSS	48.000
224 HCV 3b	48	15	10	в_4403	SEAPpLCSSL	32.000
225 HCV 3b	49	28	9	в7	APCARFTSI	24.000
<b>226</b> HCV 3b	49	4	9	в7	RAGRRSVNL	12.000
227 HCV 3b	50	63	9	A_0201	ILLRSRYRI	65.622
228 HCV 3b	50	64	10	A3	LLRSrYRIHR	24.000
229 HCV 3b	50	8	9	в7	AARSSRVCL	540.000
230 HCV 3b	50	57	9	в7	TGRDRHILL	40.000
<b>231</b> HCV 3b	50	7	10	в7	RAARSSRVCL	18.000
<b>232</b> HCV 3b	50	57	9	В8	TGRDRHILL	24.000
233 HCV 3b	50	8	9	B8	AARSSRVCL	16.000
234 HCV 3b	50	5	10	B8	NLRAaRSSRV	24.000
235 HCV 3b	50	8	10	В8	AARSSRVCLA	16.000
<b>236</b> HCV 3b	50	44	9	B_3501	TPCPGREIF	20.000
237 HCV 3b	50	49	9	B_4403	REIFPVDET	60.000 18.000
238 HCV 3b	50	55	9 	B_4403	DETGRDRHI	12.000
239 HCV 3b	50	1	9	B_4403	MEGPNLRAA	13.028
240 HCV 3b	51	16		A_0201		15.000
241 HCV 3b	51	25	9	A3	LLYVISKRR	13.500
242 HCV 3b	51	24	9	A3	CLLYVISKR	30.000
243 HCV 3b	51	16	10	B7	LVAETPQSCL SEEGYLRQT	18.000
244 HCV 3b	51	36	9	B_4403		16.000
245 HCV 3b	51	18	9	B_4403	AETPQSCLL	480.000
246 HCV 3b	51	18	10	B_4403	AETPQSCLLY	12.000
247 HCV 3b	51	36	10	B_4403	SEEGyLRQTA no hits	12.000
248 HCV 3b	52				no hits	
249 HCV 3b	53				no mics	
moto 1 - 47						

Table 41 3b (4-6)

No.	Strain	ORF	Start	AA	HLA	Peptide sequence	Score
1	HCV 3b	1				no hits	
2	HCV 3b	2				no hits	
3	HCV 3b	3	4	9	в8	DSRVKATSV	24.000

4	HCV 3b	4	1	9	A_0201	MLHSLFGRV	29.205
5	HCV 3b	4	9	10	A1	VLEPvGRPHR	180.000
6	HCV 3b	4	4	10	A_0201	SLFGrVLEPV	290.025
7	HCV 3b	4	1	10	A_0201	MLHSLFGRVL	11.316
8	HCV 3b	5	1	9	A_0201	MVIEHLQSV	97.561
9	HCV 3b	5	7	9	B_3501	QSVEGNLLL	10.000
10	HCV 3b	6	2	9	B_3501	RPVRLTSGF	40.000
11	HCV 3b	7	14	9	A_0201	GLTRRSIAV	69.552
12	HCV 3b	7	4	10	A1	YTEGdLVPQK	90.000
13	HCV 3b	8	17	9	в7	APQGTRVIV	18.000
14	HCV 3b	9	23	9	A_0201	YMPAQHCST	24.757
15	HCV 3b	9	24	9	B_3501	MPAQHCSTY	40.000
16	HCV 3b	9	8	10	A24	RYESVHPLHC	15.000
17	HCV 3b	9	6	10	B_4403	CERYeSVHPL	12.000
18	HCV 3b	10	1	9	B_3501	MPHDDDTTY	120.000
19	HCV 3b	11				no hits	
20	HCV 3b	12	60	9	A_0201	CLIQHRAYT	40.986
21	HCV 3b	12	18	9	A_0201	FAIKGDFSV	25.773
22	HCV 3b	12	90	9	A24	RTTPIGEEL	14.784
23	HCV 3b	12	13	9	A3	CQWEGFAIK	13.500
24	HCV 3b	12	53	9	в7	QPHPGCLCL	80.000
25	HCV 3b	12	25	9	в7	SVTGEAHLL	20.000
26	HCV 3b	12	53	9	B_3501	QPHPGCLCL	20.000
27	HCV 3b	12	95	9	B_4403	GEELAVCGV	18.000
28	HCV 3b	12	2	9	B_4403	AEYKVSSSL	12.000
29	HCV 3b	12	68	10	A_0201	TQYGgSVLRV	51.901
30	HCV 3b	12	79	10	A_0201	FIADdHVIGA	29.632
31	HCV 3b	12	50	10	A24	QYRQpHPGCL	200.000
32	HCV 3b	12	66	10	A24	AYTQYGGSVL	200.000
33	HCV 3b	12	23	10	A24	DFSVtGEAHL	20.000
34	HCV 3b	12	52	10	A24	RQPHpGCLCL	12.000
35	HCV 3b	12	15	10	B_4403	WEGFaIKGDF	40.000
36	HCV 3b	12	117	10	B_4403	$\mathtt{TDVG}_{\forall}\mathtt{NPIGF}$	15.000
37	HCV 3b	13	16	9	A_0201	GLGGRGQHL	21.362
38	HCV 3b	13	9	9	A24	PYCRTQEGL	20.000
39	HCV 3b	13	18	9	в7	GGRGQHLHL	40.000
40	HCV 3b	14	4	9	A_0201	WLLLTAVTI	177.566
41	HCV 3b	14	2	9	A_0201	EQWLLLTAV	10.096
42	HCV 3b	14	6	9	A3	LLTAVTIFK	60.000
43	HCV 3b	14	6	10	A_0201	LLTAVTIFKI	236.595
44	HCV 3b	14	5	10	A3	LLLTaVTIFK	90.000
45	HCV 3b	14	9	10	в7	AVTI£KITAL	60.000
46	HCV 3b	15	5	9	A1	SYEHSDLEY	11.250
47	HCV 3b	15	60	9	A_0201	KVGLICFNV	123.542
48	HCV 3b	15	20	9	A_0201	RIMPQSVRV	35.385
49	HCV 3b	15	67	9	A_0201	NATHLLIDA	22.517
50	HCV 3b	15	21	9	A_0201	IMPQSVRVV	16.105
51	HCV 3b	15	50	9	A_0201	VLPETIGRA	10.353
52	HCV 3b	15	58	9	A24	AFKVGLICF	10.000
53	HCV 3b	15	28	9	A3	VVYQTPWRK	30.000
54	HCV 3b	15	75	9	в7	VARGSPTSL	120.000
55	HCV 3b	15	55	9	в7	IGRAFKVGL	40.000

- 139 -

56	HCV 3b	15	43	9	В7	AGKRGIMVL	12.000
57	HCV 3b	15	75	9	В8	VARGSPTSL	16.000
58	HCV 3b	15	22	9	B_3501	MPQSVRVVY	40.000
59	HCV 3b	15	14	9	B_4403	REVHSARIM	12.000
60	HCV 3b	15	11	9	B_4403	LEYREVHSA	12.000
61	HCV 3b	15	2	10	A_0201	FMSSYEHSDL	70.971
62	HCV 3b	15	54	10	A_0201	TIGRaFKVGL	11.162
63	HCV 3b	15	12	10	A24	EYREVHSARI	60.000
64	HCV 3b	15	60	10	A24	KVGLiCFNVL	11.520
65	HCV 3b	15	48	10	A3	IMVLpETIGR	12.000
66	HCV 3b	15	90	10	в7	HPHTsKPPAL	80.000
67	HCV 3b	15	42	10	в7	AAGKrGIMVL	36.000
68	HCV 3b	15	40	10	в7	GPAAgKRGIM	30.000
69	HCV 3b	15	74	10	В7	DVARgSPTSL	20.000
70	HCV 3b	15	60	10	в7	KVGLiCFNVL	20.000
71	HCV 3b	15	90	10	В8	HPHTsKPPAL	16.000
72	HCV 3b	15	40	10	B_3501	GPAAgKRGIM	40.000
73	HCV 3b	15	90	10	B_3501	HPHTsKPPAL	20.000
74	HCV 3b	15	4	10	B_3501	SSYELSDLEY	20.000
75	HCV 3b	15	75	10	B_3501	VARGSPTSLY	18.000
76	HCV 3b	16				no hits	
77	HCV 3b	17	2	9	B_4403	SEGSCDAPY	240.000
78	HCV 3b	17	14	9	B_4403	DERNVPHEV	18.000
79	HCV 3b	17	1	10	A1	MSEGsCDAPY	135.000
80	HCV 3b	18	9	9	A3	KMKSAPSRR	12.000
81	HCV 3b	18	11	10	A_0201	KSAPsRRWAV	11.918
82	HCV-3b	18	1	10	в7	MPRRrLRSKM	300.000
83	HCV 3b	18	1	10	B_3501	MPRRrLRSKM	120.000
84	HCV 3b	19				no hits	
85	HCV 3b	20	6	9	B_3501	RAGDPSPQM	24.000
86	HCV 3b	20	6	. 10	A24	RAGDpSPQML	11.520
87	HCV 3b	20	6	10	в7	RAGDpSPQML	12.000
88	HCV 3b	20	6	10	B_3501	RAGDpSPQML	12.000
89	HCV 3b	21	3	9	A_0201	LLWRQSRSM	14.020
90	HCV 3b	21	3	10	A_0201	LLWRQSRSMT	105.148
91	HCV 3b	22	22	9	A_0201	YLLLRRMCL	363.588
92	HCV 3b	22	39	9	A_0201	KISLPGQGV	33.472
93	HCV 3b	22	29	9	A_0201	CLSLPVSST	17.140
94	HCV 3b	22	20	9	A_0201	ILYLLLRRM	12.432
95	HCV 3b	22	15	9	A24	RTQRWILYL	12.000
96	HCV 3b	22	31	9	A3	SLPVSSTGK	20.000
97	HCV 3b	22	16	9	в7	TQRWILYLL	40.000
98	HCV 3b	22	24	9	в7	LLRRMCLSL	40.000
99	HCV 3b	22	2	9	B_3501	TPRPILRQF	60.000
10	0 HCV 3b	22	23	10	A_0201	LLLRrMCLSL	134.369
10	1 HCV 3b	22	41	10	A_0201	SLPGqGVPRT	17.140
10	2 HCV 3b	22	21	10	A24	LYLLLRRMCL	300.000
10	3 HCV 3b	22	15	10	A24	RTQRWILYLL	16.800
10	4 HCV 3b	22	16	10	в7	TQRWiLYLLL	40.000
10	5 HCV 3b	22	47	10	в7	VPRThSTHRA	20.000
10	6 HCV 3b	22	12	10	в7	ASHRŁQRWIL	18.000
10	7 HCV 3b	23				no hits	

			0.4	1		D 4403	MEN ATT A OCTA	12.000
108			24	1	9	B_4403	MEVNRAQGA	40.000
109			24	3	10	в7	VNRAqGAGPL	40.000
110			25	4.0	_	- 0001	no hits	21.909
111			26	42	9	A_0201	RVYSAQWCI	12.000
112			26	21	9	B7	APRHNCRRS	
113			26	38	9	B8	CARGRVYSA	16.000
	HCV		26	7	10	B_3501	RSWPPPRNEY	20.000
	HCV		26	11	10	B_3501	PPRNeYPPPY	12.000
	HCV		26	35	10	B_3501	ASNCaRGRVY	10.000
	HCV		27	2	9	B_4403	RERVCLAPW	18.000
	HCV		28	6	10	B7	LPRRSRGHSV	40.000
	HCV		28	6	10	B8	LPRRsRGHSV	48.000
	HCV		28	6	10	B_3501	LPRRsRGHSV	12.000
	HCV		28	9	10	B_3501	RSRGhSVLVI	12.000
	HCV		29	2	9	A_0201	LQVPLGVWL	20.251
	HCV		29	1	10	A_0201	MLQVpLGVWL	199.738
	HCV		29	4	10	В7	VPLGvWLPNL	80.000
125	HCV	3b	29	4	10	B_3501	VPLGvWLPNL	20.000
126	HCV	3b	30	21	9	A_0201	SLGPAVLPV	159.970
127	HCV	3b	30	18	9	A_0201	SMQSLGPAV	50.232
	HCV		30	5	9	A_0201	PLHERRQWL	10.598
129	HCV	3b	30	27	9	В7	LPVTRSGHL	80.000
130	HCV	3b	30	27	9	B8	LPVTRSGHL	16.000
131	HCV	3b	30	27	9	B_3501	LPVTRSGHL	20.000
132	HCV	3b	30	4	9	B_3501	SPLHERRQW	15.000
	HCV		30	4	10	В7	SPLHeRRQWL	120.000
134	HCV	3b	30	4	10	В8	SPLHeRRQWL	16.000
135	HCV	3b	30	27	10	B_3501	LPVTrSGHLY	40.000
	HCV		30	4	10	B_3501	SPLHeRRQWL	20.000
137	HCV	3b	31	11	9	B7 -	VVGHTRNNL	30.000
	HCV		31	10	10	В7	QVVGhTRNNL	30.000
	HCV		32	23	9	A24	RFQWGREGI	15.000
	HCV		32	24	10	A_0201	FQWGrEGILL	82.694
	HCV		32	23	10	A24	RFQWgREGIL	60.000
	HCV		32	9	10	B7	IPVQhKRRGL	120.000
	HCV		32	9	10	B8	IPVQhKRRGL	16.000
	HCV		32	9	10	B_3501	IPVQhKRRGL	20.000
	HCV		33	36	9	A24	RCLRRLLCL	12.000
	HCV		33	34	9	B7	RTRCLRRLL	60.000
	HCV		33	32	10	B7	ATRTCLRRL	120.000 11.988
	HCV		34	5	10	A_0201	MQPGtRRNPV	
	HCV		34	8	10	B7	GTRRnPVVPL	60.000 25.000
	HCV		35	39	9	A1	RIDVHVLLR	
	HCV		35	30	9	B7	LPSSSCRRL	80.000
	HCV		35	37	9	B7	RLRIDVHVL	40.000
	HCV		35	16	9	B7	VVAHCGHDL	20.000
	HCV		35	3	9	B7	MAILASQSL	12.000
	HCV		35	30	9	B_3501	LPSSSCRRL	20.000
	HC/		35	5	10	A_0201	ILASqSLNGA	19.425
	HCV		35	2	10	A_0201	SMAILASQSL	15.428
	HC/		35	37	10	A24	RLRIdVHVLL	11.200
159	HC/	7 3b	35	37	10	в7	RLRIdVHVLL	40.000

160	HCV	3b	35	15	10	в7	VVVAhCGHDL	20.000
161	HCV	3b	35	29	10	в7	ALPSsSCRRL	12.000
162	HCV	3b	35	40	10	B_4403	IDVHvLLRTF	15.000
163	HCV	3b	36	1	9	B7	MVCPHWDHL	20.000
164	HCV	3b	37	22	9	B_3501	RPHTQCSCW	20.000
165	HCV	3b	37	4	10	в8	CCRFTRRARI	80.000
166	HCV	3b	37	16	10	в8	SARSTRRPHT	16.000
167	HCV	3b	38	8	9	A1	GLEAARHSY	45.000
168	HCV	3b	38	8	9	A3	GLEAARHSY	12.000
169	HCV	3b	38	1	9	В7	MALPEGGGL	12.000
170	HCV	3b	38	2	10	A_0201	ALPEGGGLEA	20.369
171	HCV	3ъ	39				no hits	
172	HCV	3b	40	41	9	A_0201	ILAFPPWAM	63.342
173	HCV	3b	40	19	9	A_0201	AVGNGVSLV	13.997
174	HCV	3b	40	26	9	A_0201	LVLVRTAQL	11.757
175	HCV	3b	40	36	9	A24	RYRPHILAF	240.000
176	HCV	3b	40	43	9	A24	AFPPWAMSL	36.000
177	HCV	3b	40	69	9	A24	SFLRAPATL	30.000
178	HCV	3b	40	27	9	A3	VLVRTAQLK	30.000
179	HCV	3b	40	70	9	в7	FLRAPATLL	60.000
180	HCV	3b	40	26	9	в7	LVLVRTAQL	20.000
181	HCV	3b	40	73	9	в7	APATLLSSV	12.000
182	HCV	3b	40	54	9	В8	TARARCLHA	16.000
183	HCV	3b	40	10	10	A_0201	NQLErsswpa	57.308
184	HCV	3b	40	25	10	A_0201	SLVLvRTAQL	21.362
185	HCV	3b	40	69	10	A24	SFLRaPATLL	30.000
186	HCV	3b	40	27	10	A3	VLVRtAQLKR	12.000
187	HCV	3b	40	51	10	B <b>7</b>	LARTARARCL	120.000
188	HCV	3b	40	3	10	В7	FPPTpTVNQL	80.000
189	HCV	3b	40	17	10	в7	WPAVgNGVSL	80.000
190	HCV	3b	40	19	10	в7	AVGNgVSLVL	60.000
191	LHCV	3b	40	62	10	в7	ARRGGIPSFL	12.000
192	HCV	3b	40	42	10	в7	LAFPpWAMSL	12.000
193	HCV	3b	40	51	10	в8	LARTaRARCL	320.000
194	HCV	3b	40	33	10	в8	QLKRYRPHIL	160.000
195	HCV	3b	40	3	10	B_3501	FPPTpTVNQL	20.000
196	HCV	3b	40	38	10	B_3501	RPHILAFPPW	20.000
197	7 HCV	3b	40	17	10	B_3501	WPAVgNGVSL	20.000
198	3 HCV	3b	41	1	9	A_0201	MIAGKSSGV	16.258
199	HCV	3b	42	19	9	A_0201	MMIFPNQEL	26.228
200	) HCV	3b	42	25	9	B_4403	QELTGVWRA	24.000
203	L HCV	3b	42	1	9	B_4403	MEKKWVINT	12.000
202	2 HCV	3b	42	18	10	A_0201	NMMIfPNQEL	57.085
203	3 HCV	3b	42	6	10	A_0201	VINTmRTQMV	16.258
204	4 HCV	3b	42	13	10	A3	QMVGaNMMIF	13.500
20	5 HCV	3b	42	18	10	в7	NMMIfPNQEL	18.000
20	6 HCV	3b	42	22	10	B_3501	FPNQeLTGVW	10.000
20	7 HCV	7 3b	42	25	10	B_4403	QELTgVWRAV	12.000
20	8 HCV	7 3b	43	39	9	A_0201	ALLAAVALM	42.278
20	9 HCV	7 3b	43	10	9	A_0201	VLSSSTPQL	36.316
21	O HCV	7 3b	43	33	9	A24	GFLRPAALL	30.000
21	1 HCV	7 3b	43	38	9	в7	AALLAAVAL	36.000

212	HCV	3b	43	3	9	в7	SVKARRAVL	30.000
213	HCV	3b	43	3	9	В8	SVKARRAVL	80.000
214	HCV	3b	43	26	9	B_3501	SPQTRKDGF	20.000
215	HCV	3b	43	26	10	В7	SPQTrKDGFL	80.000
216	HCV	3b	43	9	10	В7	AVLSsSTPQL	60.000
217	HCV	3b	43	2	10	в7	ASVKaRRAVL	18.000
218	HCV	3b	43	26	10	B8	SPQTrKDGFL	16.000
219	HCV	3b	43	26	10	B_3501	SPQTrKDGFL	20.000
220	HCV	3b	44	32	9	A_0201	VLMSCSVTV	437.482
221	HCV	3b	44	46	9	A_0201	VSYENPKGV	10.126
222	HCV	3b	44	5	9	A24	MYSRSVRAL	200.000
223	HCV	3b	44	47	9	A24	SYENPKGVF	150.000
224	HCV	3b	44	26	9	A24	WYIPSSVLM	45.000
225	HCV	3ъ	44	53	9	в7	GVFFDVHIL	20.000
226	HCV	3b	44	50	9	B_3501	NPKGVFFDV	12.000
227	HCV	3b	44	64	9	B_3501	CSTRCLGEY	10.000
228	HCV	3b	44	8	9	B_3501	RSVRALIAF	10.000
229	HCV	3b	44	48	9	B_4403	YENPKGVFF	120.000
230	HCV	3b	44	40	9	B_4403	VESKQRVSY	120.000
231	HCV	3b	44	39	10	A1	TVESkQRVSY	90.000
232	HCV	3b	44	31	10	A_0201	SVLMsCSVTV	22.517
233	HCV	3b	44	47	10	A24	SYENpKGVFF	150.000
234	HCV	3b	44	5	10	A24	MYSRsVRALI	70.000
235	HCV	3b	44	52	10	A24	KGVFfDVHIL	12.000
236	HCV	3b	44	53	10	A3	GVFFdVHILR	18.000
237	HCV	3b	44	60	10	в7	ILRRcSTRCL	40.000
238	HCV	.3b	44	18	10	в_3501	ASGSrSQHWY	10.000
239	HCV	3b	44	46	10	B_3501	VSYEnPKGVF	10.000
240	HCV	3b	45	37	9	A_0201	SQTERIWFM	195.933
241	HCV	3b	45	14	9	A_0201	TLNTSFFAI	114.969
242	HCV	3b	45	13	9	A_0201	FTLNTSFFA	37.463
243	HCV	3b	45	21	9	A_0201	AIMVVGIGV	35.385
244	HCV	3b	45	82	9	A_0201	FTPDARSFT	10.736
245	HCV	3b	45	88	9	A24	SFTSLSTFL	24.000
246	HCV	35	45	7	У	A24	RPPFAGFTL	12.000
247	HCV	3b	45	12	9	A24	GFTLNTSFF	10.000
248	HCV	3b	45	5	9	A3	GLRPPFAGF	40.500
249	HCV	3b	45	7	9	в7	RPPFAGFTL	80.000
250	HCV	3b	45	23	9	в7	MVVGIGVLL	20.000
251	HCV	3b	45	7	9	B_3501	RPPFAGFTL	40.000
252	HCV	3b	45	74	9	B_3501	SSKESRRPF	30.000
253	HCV	3b	45	58	9	B_3501	YPYFDRPEW	15.000
254	HCV	3b	45	87	9	B_3501	RSFTSLSTF	10.000
255	HCV	3b	45	50	9	B_4403	KERTSFALY	120.000
256	HCV	3b	45	13	10	A_0201	FTLNtSFFAI	27.178
257	HCV	3b	45	22	10	A_0201	IMVVgIGVLL	26.228
258	HCV	3b	45	37	10	A_0201	SQTErIWFMA	20.363
259	HCV	3b	45	47	10	A_0201	LLDKeRTSFA	18.580
260	HCV	3b	45	14	10	A_0201	TLNTSFFAIM	14.706
261	. HCV	3b	45	30	10	A_0201	LLSSnKSSQT	12.668
262	HCV	3b	45	44	10	A_0201	FMAL1DKERT	12.131
263	HCV	3b	45	41	10	A3	RIWFmALLDK	30.000
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264	HCV :	3b	45	21	10	в7	AIMVvGIGVL	36.000
265	HCV	3b	45	83	10	В7	TPDArSFTSL	24.000
266	HCV	3b	45	80	10	B_3501	RPFTpDARSF	60.000
267	HCV	3b	45	35	10	B_3501	KSSQtERIWF	15.000
268	HCV	3b	45	36	10	B_3501	SSQTeRIWFM	10.000
269	HCV	3b	45	87	10	B_3501	RSFTsLSTFL	10.000
270	HCV	3b	45	22	9	A1	TVDQESASR	10.000
271	HCV	3b	46	97	9	B_3501	DPSSLIVLF	20.000
272	HCV	3b	46	88	9	B_3501	RARSAADTF	18.000
273	HCV	3b	46	71	9	B_4403	EDVPVPSGF	30.000
274	HCV	3b	46	43	9	B_4403	DEYDSTSDS	18.000
275	HCV	3b	46	14	10	A_0201	TLCSsESLTV	69.552
276	HCV	3b	46	6	10	A24	EYDIeQQTTL	200.000
277	HCV	3b	46	95	10	A24	TFDPsSLIVL	24.000
278	HCV	3b	46	97	10	в7	DPSSLIVLFL	80.000
279	HCV	3b	46	33	10	в7	SPGSpSRGGM	30.000
280	HCV	3b	46	92	10	в7	AADTfDPSSL	10.800
281	HCV	3b	46	33	10	B_3501	SPGSpSRGGM	40.000
282	HCV	3b	46	36	10	B_3501	SPSRgGMDEY	40.000
283	HCV	3b	46	97	10	B_3501	DPSSLIVLFL	20.000
284	HCV	3b	46	70	10	B_4403	EEDVpVPSGF	60.000
285	HCV	3b	46	18	10	B_4403	SESLTVDQES	12.000
286	HCV	3b	46	43	10	B_4403	DEYDSTSDSS	12.000
287	HCV	3b	46	56	10	B_4403	GESPdSAVDS	12.000
288	HCV	3b	47	17	9	A_0201	ILMDPFLTC	243.428
289	HCV	3b	47	16	9	A_0201	AILMDPFLT	21.989
290	HCV	3b	47	10	9	в7	AQRPDPAIL	120.000
291	. HCV	3b	47	39	9	в7	TPSPRHTPL	80.000
292	HCV	3b	47	30	9	в7	SPQGQRVVI	12.000
293	HCV	3b	47	39	9	в8	TPSPRHTPL	16.000
294	HCV	3b	47	14	9	B_3501	DPAILMDPF	20.000
	HCV		47	39	9	B_3501	TPSPRHTPL	20.000
296	HCV	3b	47	18	10	A_0201	LMDPfLTCPV	34.158
	HCV		47	8	10	A_0201	MLAQrPDPAI	17.736
	3 HCV		47	14	10	B7	DPAILMOPFL	80.000
	HCV		47	10	10	B7	AQRPdPAILM	45.000
	) HCV		47	9	10	B7	LAQRODPAIL	12.000
	L HCV		47	41	10	B_3501	SPRHtPLYPF	60.000
	HCV		47	39	10	B_3501	TPSPTHTPLY	40.000 20.000
	3 HCV		47	14	10	B_3501	DPAILMDPFL	50.232
	4 HCV		48	6	9	A_0201	GMILAESQV	15.428
	5 HCV		48	26	9	A_0201	QMSCNQSPL	30.000
	6 HCV		48	8	9	A3	ILAESQVLK	80.000
	7 HCV		48	1	9	B7	MPGTLGMIL	20.000
	B HCV		48	1	9	B_3501	MPGTLGMIL AESOVLKSL	27.000
	9 HCV		48	10	9	B_4403	-	12.000
	0 HCV		48	25	10	B7	SQMScNQSPL	10.000
	1 HCV		48	18	10	B_3501	LSTIQTQSQM	45.000
	2 HCV		49	123	9	A1	VTEAVKAIR	25.000
	3 HCV		49	104	9	A1	ATOPPRMLK	15.000
	4 HCV		49	47	9	A1	GSSPPMILK	722.126
31	5 HCV	<i>d</i> 3.5	49	109	9	A_0201	RMLKNIVWL	122.120

316	HCV 3b	49	110	9	A_0201	MLKNIVWLV	71.386
317	HCV 3b	49	148	9	A_0201	WIPLTKFHM	18.225
318	HCV 3b	49	74	9	A_0201	TLPMPMPPT	17.140
319	HCV 3b	49	122	9	A_0201	LVTEAVKAI	14.634
320	HCV 3b	49	116	9	A_0201	WLVVRGLVT	14.054
321	HCV 3b	49	34	9	A_0201	KMAGRRLTM	12.558
322	HCV 3b	49	114	9	A_0201	IVWLVVRGL	12.132
323	HCV 3b	49	146	9	A24	RYWIPLTKF	220.000
324	HCV 3b	49	109	9	A24	RMLKNIVWL	12.000
325	HCV 3b	49	129	9	В7	AIREATAGL	120.000
326	HCV 3b	49	143	9	в7	RPARYWIPL	80.000
327	HCV 3b	49	186	9	в7	KPRTLSLNC	20.000
328	HCV 3b	49	114	9	в7	IVWLVVRGL	20.000
329	HCV 3b	49	103	9	в7	VATQPPRML	18.000
330	HCV 3b	49	182	9	в7	ALCSKPRTL	12.000
331	HCV 3b	49	184	9	В8	CSKPRTLSL	80.000
332	HCV 3b	49	143	9	B_3501	RPARYWIPL	40.000
333	HCV 3b	49	58	9	B_3501	RAPETPAPY	24.000
334	HCV 3b	49	139	9	B_3501	GSVERPARY	20.000
335	HCV 3b	49	184	9	B_3501	CSKPRTLSL	15.000
336	HCV 3b	49	186	9	B_3501	KPRTLSLNC	12.000
337	HCV 3b	49	71	9	B_3501	SSNTLPMPM	10.000
338	HCV 3b	49	141	9	B_4403	VERPARYWI	12.000
339	HCV 3b	49	92	10	A1	NAEDaAGPAR	18.000
340	HCV 3b	49	109	10	A_0201	RMLKnIVWLV	3.206.057
341	HCV 3b	49	180	10	A_0201	WLALCSKPRT	34.279
342	HCV 3b	49	121	10	A_0201	GLVTeAVKAI	23.995
343	HCV 3b	49	114	10	A_0201	IVWLvVRGLV	11.163
344	HCV 3b	49	128	10	A24	KAIReATAGL	12.000
345	HCV 3b	49	66	10	в7	YPASTSSNTL	80.000
346	HCV 3b	49	172	10	в7	MGRISASCWL	40.000
347	HCV 3b	49	45	10	в7	VVGSsPPMIL	30.000
348	HCV 3b	49	102	10	в7	CVATqPPRML	30.000
349	HCV 3b	49	181	10	в7	LALCSKPRTL	12.000
	HCV 3b	49	128	10	в7	KAIReATAGL	12.000
351	. HCV 3b	49	80	10	В7	PPTAaPAKPL	12.000
352	HCV 3b	49	118	10	в7	VVRG1VTEAV	10.000
353	HCV 3b	49	181	10	в8	LALCSKPRTL	16.000
	HCV 3b	49	183	10	в8	LCSKpRTLSL	16.000
	HCV 3b	49	66	10	B_3501	YPASTSSNTL	20.000
	HCV 3b	49	43	10	B_3501	SSVVgSSPPM	10.000
	HCV 3b	49	68	10	B_3501	ASTSSNTLPM	10.000
	HCV 3b	49	70	10	B_3501	TSSNtLPMPM	10.000
	HCV 3b	49	131	10	B_4403	REATAGLPGS	12.000
	HCV 3b	49	124	10	B_4403	TEAVKAIREA	12.000
	L HCV 3b	50		•	2 0001	no hits	01 705
	2 HCV 3b	51	4	9	A_0201	MMYLVIGCV	81.705 30.534
	HCV 3b	51	3	9	A_0201	AMMYLVIGC	30.534
	4 HCV 3b	51	5	9	A24	MYLVIGCVM	52.500 55.572
	5 HCV 3b	51	3	10			55.572 53.561
	F HCV 3b	51	6	10			52.561
367	7 HCV 3b	52	12	10	A_0201	GLAFaRAQTV	69.552

WO 2004/011650

368 I	HCV 3	b	53	5	9	B_3501	RSPGVTNRY	20.000
369 E	HCV 3	db	53	5	9	B_4403	RSPGVTNRY	10.125
370 I	HCV 3	b	53	12	10	A24	RYIPgLPRPV	21.600
<b>371</b> I	HCV 3	b	53	16	10	A3	GLPRpVRPLR	18.000
372 I	HCV 3	3b	53	8	10	в7	GVTNrYIPGL	20.000
373 I	HCV 3	3b	54	17	9	A3	TLQSITVSK	30.000
374	HCV 3	3b	54	22	10	A_0201	TVSKsPVYPV	13.997
375	HCV 3	3b	54	23	10	B_3501	VSKSpVYPVM	30.000
376	HCV 3	3b	54	9	10	B_3501	KSTYCSTATL	10.000
377	HCV 3	3b	55	6	9	в7	VAVASTVSL	12.000
378	HCV 3	3b	55	5	10	в7	GVAVaSTVSL	20.000
379	HCV 3	3b	56	1	9	в7	MVRVPVRML	300.000
380	HCV 3	3b	57	3	9	B8	VPKPRVAAT	16.000
381	HCV 3	3b	57	12	9	B_4403	DGFSTRTEY	13.500
382	HCV 3	3b	57	5	10	B_3501	KPRVaATDGF	120.000
383	HCV 3	3b	57	11	10	B_4403	TDGFsTRTEY	22.500
384	HCV 3	3b	58	40	9	A_0201	GLVLSKLAV	69.552
385	HCV 3	3b	58	65	9	A24	RYRSEEPHV	10.000
386	HCV 3	3b	58	45	9	A3	KLAVESPLR	12.000
387	HCV :	3b	58	33	9	в7	EPLRQDSGL	80.000
388	HCV :	3b	58	8	9	B7	TPLVHTAAL	80.000
389	HCV :	3b	58	86	9	в7	QPTRSWSTL	80.000
390	HCV :	3b	58	2	9	в7	NCRAFATPL	40.000
391	HCV :	3b	58	2	9	в8	NCRAFATPL	16.000
392	HCV :	3b	58	8	9	B_3501	TPLVHTAAL	20.000
393	HCV :	3b	58	33	9	B_3501	EPLRQDSGL	20.000
394	HCV .	3b	58	86	9	B_3501	QPTRSWSTL	20.000
395	HCV	3b	58	58	9	B_3501	TSASRVTRY	10.000
396	HCV	3b	58	68	9	B_4403	SEEPHVQGS	48.000
397	HCV	3b	58	58	9	B_4403	TSASRVTRY	27.000
398	HCV	3b	58	45	10	A3	KLAVeSPLRR	24.000
399	HCV	3b	58	70	10	в7	EPHVqGSRDL	80.000
400	HCV	3b	58	18	10	В7	IPTTCPEGHM	30.000
401	HCV	3b	58	7	10	B7	ATPLVHTAAL	12.000
402	HCV	3b	58	18	10	B_3501	IPTTCPEGHM	40.000
403	HCV	3b	58	70	10	B_3501	EPHVqGSRDL	20.000
404	HCV	3b	58	43	10	B_3501	LSKLaVESPL	15.000
405	HCV	3b	58	57	10	B_4403	RTSAsRVTRY	13.500
406	HCV	3b	59	1	9	A1	MTPPTVVPK	10.000
407	HCV	3b	59	26	9	A_0201	FLSLPVRLV	147.172
408	HCV	3b	59	5	9	A_0201	TVVPKKVWV	33.472
409	HCV	3b	59	28	9	A_0201	SLPVRLVTI	23.995
410	HCV	3b	59	10	9	A_0201	KVWVAVDST	21.348
411	HCV	3b	59	25	9	A24	TFLSLPVRL	36.000
412	HCV	3b	59	21	9	в7	SPVTTFLSL	80.000
413	HCV	3b	59	52	9	В7	DSRRHPIFL	40.000
414	HCV	3b	59	40	9	в7	SPRVCWAYA	20.000
415	HCV	3b	59	21	9	B_3501	SPVTTFLSL	20.000
416	HCV	3b	59	52	9	B_3501	DSRRHPIFL	15.000
417	HCV	3b	59	7	9	в_3501	VPKKVWVAV	12.000
418	HCV	3b	59	39	9	B_3501	NSPRVCWAY	10.000
419	HCV	3b	59	37	9	B_3501	VPNSPRVCW	10.000

420	HCV	3b	59	1	10	A1	MTPPtVVPKK	10.000
421	HCV	3b	59	28	10	A_0201	SLPVrLVTIV	65.588
422	HCV	3b	59	6	10	A_0201	VVPKkVWVAV	17.588
423	HCV	3b	59	26	10	A_0201	FLSLpVRLVT	14.054
424	HCV	3b	59	10	10	A_0201	KVWVaVDSTC	12.628
425	HCV	3b	60	21	9	A_0201	KMTGSVATA	28.883
426	HCV	3b	60	33	9	В7	RPSAAQSCM	20.000
427	HCV	3b	60	33	9	B_3501	RPSAAQSCM	80.000
428	HCV	3b	60	39	9	B_4403	SCMGDRWSY	18.000
429	HCV	3b	60	14	10	A_0201	TLISIGLKMT	17.140
430	HCV	3b	60	6	10	в7	AVSApQVITL	60.000
431	HCV	3b	60	9	10	в7	APQViTLISI	24.000
432	HCV	3b	60	11	10	B7	QVITLISIGL	20.000
433	HCV	3b	60	38	10	B_3501	QSCMgDRWSY	15.000
434	HCV	3b	61				no hits	
435	HCV	3b	62	33	9	A1	AASPLHMAY	25.000
436	HCV	3b	62	7	9	A24	GYSRLASKI	66.000
437	HCV	3b	62	52	9	A3	CLYHGDKVK	50.000
438	HCV	3b	62	45	9	B7	QIRRPIQCL	60.000
439	HCV	3b	62	3	9	B7	KIREGYSRL	40.000
440	HCV	3b	62	20	9	в7	LPRTSRGGT	30.000
441	HCV	3b	62	61	9	в7	NPRSRSTPA	20.000
442	HCV	3b	62	12	9	в7	ASKITLSRL	12.000
443	HCV	3b	62	63	9	в7	RSRSTPAPM	10.000
444	HCV	3b	62	61	9	B8	NPRSRSTPA	16.000
445	HCV	3b	62	63	9	B_3501	RSRSTPAPM	60.000
446	HCV	3b	62	35	9	B_3501	SPLHMAYWF	20.000
447	HCV	3b	62	12	9	B_3501	ASKITLSRL	15.000
448	HCV	3b	62	3	9	B_3501	KIREGYSRL	12.000
449	HCV	3b	62	33	9	B_4403	AASPLHMAY	12.000
450	HCV	3b	62	10	10	A3	RLASKITLSR	12.000
451	HCV	3b	62	38	10	A3	HMAYwFHQIR	12.000
452	HCV	3b	62	8	10	в7	YSRLaSKITL	40.000
453	HCV	3b	62	69	10	в7	APMVaSSSPV	36.000
454	HCV	3b	62	11	10	В7	LASKITLSRL	12.000
455	HCV	3b	62	8	10	B_3501	YSRLaSKITL	15.000
456	HCV	3b	62	32	10	B_3501	KAASpLHMAY	12.000
457	HCV	3b	63	3	9	B_4403	HAAQNATRY	13.500
458	HCV	3b	64	68	9	A_0201	TLNIEKFTV	403.402
459	HCV	3b	64	61	9	в7	CPPTNILTL	80.000
460	HCV	3b	64	44	9	в7	SQRSPLVQL	60.000
461	HCV	3b	64	41	9	В7	SSRSQRSPL	60.000
462	HCV	3b	64	61	9	B_3501	CPPTNILTL	20.000
463	HCV	3b	64	41	9	B_3501	SSRSQRSPL	15.000
464	HCV	3b	64	24	9	B_4403	SESVVEWSS	12.000
465	HCV	3b	64	66	10	A_0201	ILTLnIEKFT	69.676
466	HCV	3b	64	67	10	A_0201	LTLNiEKFTV	35.242
467	HCV	3b	64	. 43	10	A24	RSQRsPLVQL	12.000
468	HCV	3b	64	41	10	B8	SSRSqRSPLV	12.000
469	HCV	3b	64	40	10	B_3501	RSSRsQRSPL	10.000
470	HCV	3b	64	43	10	B_3501	RSQRsPLVQL	10.000
471	HCV	3b	65	1	9	A_0201	MLQGGAPQV	118.238

- 147 -

				_			T DOI HERNAMA	12 000
	HCV		65	6	9	B7	APQVFTNPV	12.000
	HCV		65	8	10	A_0201	QVFTnPVLFI	42.727
	HCV		65	6	10	В7 	APQVfTNPVL	240.000
	HCV		65	20	10	B7	HPNHrPWGGL	120.000
	HCV		65	20	10	B_3501	HPNHrPWGGL	20.000
477	HCV	3b	65	6	10	B_3501	APQVfTNPVL	20.000
	HCV		65	30	10	B_4403	KEVNKKTSDS	18.000
479	HCV	3ъ	66				no hits	
480	HCV	3b	67	6	10	В7	DIRSGHPEEL	40.000
481	HCV	3b	67	8	10	B_3501	RSGHpEELNL	15.000
482	HCV	3b	68	4	10	B_3501	DPFELTNCKF	40.000
483	HCV	3b	69	3	9	в7	STMTTLAQL	12.000
484	HCV	3b	69	7	10	A3	TLAQLPCMEK	60.000
485	HCV	3b	70	3	9	A1	LLEQSLVSK	36.000
486	HCV	3b	70	1	9	A_0201	MLLLEQSLV	437.482
487	HCV	3b	70	39	9	A_0201	KEQPGRFPV	27.454
488	HCV	3b	70	11	9	A24	KYRPDAFLY	12.000
489	HCV	3b	70	3	9	A3	LLEQSLVSK	30.000
490	HCV	3b	70	9	9	B_3501	VSKYRPDAF	15.000
491	HCV	3b	70	4	9	B_4403	LEQSLVSKY	540.000
492	HCV	3b	70	37	9	B_4403	IEKEQPGRF	40.000
493	HCV	3b	70	39	9	B_4403	KEQPGRFPV	12.000
494	HCV	3b	70	3	10	A1	LLEQsLVSKY	45.000
495	HCV	3b	70	11	10	A24	KYRPđAFLYS	14.400
496	HCV	3b	70	2	10	A3	LLLEqSLVSK	67.500
497	HCV	3b	70	3	10	A3	LLEQsLVSKY	12.000
498	HCV	3b	70	13	10	в7	RPDAfLYSRL	24.000
499	HCV	3b	70	9	10	B_3501	VSKYrPDAFL	15.000
500	HCV	3b	70	13	10	B_3501	RPDAfLYSRL	12.000
501	HCV	3b	71	15	9	B7	RVSMTLPKL	20.000
502	HCV	3b	71	45	9	B_3501	HPAQPQPSF	20.000
503	HCV	3b	71	11	10	в7	NPHVrVSMTL	80.000
504	HCV	3b	71	38	10	В7	EPRGgKSHPA	20.000
505	HCV	3b	71	5	10	в7	YPMRsANPHV	12.000
506	HCV	3b	71	38	10	В8	EPRGgKSHPA	32.000
507	HCV	3b	71	11	10	B_3501	NPHVrVSMTL	20.000
508	HCV	3b	71	22	10	B_3501	KLRDLRRGSF	12.000
509	HCV	3b	72	15	9	A24	PYQAVPQGL	50.400
510	HCV	3b	72	22	9	A3	GLSRPNTTR	18.000
511	. HCV	3b	72	23	9	в7	LSRPNTTRL	40.000
512	HCV	3b	72	25	9	в7	RPNTTRLVI	12.000
513	HCV	3b	72	8	9	B_3501	LPGHSQAPY	40.000
514	HCV	3b	72	25	9	B_3501	RPNTTRLVI	16.000
515	HCV	3b	72	23	9	B_3501	LSRPNTTRL	15.000
516	HCV	3b	72	22	10	A_0201	GLSRpNTTRL	21.362
517	HCV	3b	72	14	10	в7	APYQaVPQGL	240.000
518	HCV	3b	72	14	10	B_3501	APYQaVPQGL	20.000

Table 4m H77 (1-3)

**-	at-mad n	ORF	Start	AA	HLA	Peptide sequence	Score
No.	Strain HCV H77	1	17	9	в7	SSRRKRLAM	15.000
1 2	HCV H77	1	2	9	в7	GATLHHESL	12.000
3	HCV H77	1	17	9	в8	SSRRKRLAM	20.000
4	HCV H77	1	14	10	в8	ELLSSRRKRL	16.000
<b>3</b> 5	HCV H77	1	17	9	B3501	SSRRKRLAM	30.000
6	HCV H77	1	16	10	B3501	LSSRKRLAM	10.000
7	HCV H77	1	15	9	A0201	LLSSRKRL	36.316
8	HCV H77	2	43	10	B4403	AASPTSWGTY	12.000
9	HCV H77	2	53	10	B3501	RSSAPLLEAL	10.000
10	HCV H77	2	64	10	в3501	GPWRMASGFW	10.000
11	HCV H77	2	64	9	в3501	GPWRMASGF	20.000
12	HCV H77	2	44	9	в3501	ASPTSWGTY	10.000
13	HCV H77	2	26	9	в3501	TPGVGRAIW	10.000
14	HCV H77	2	5	10	в7	VAGGRDGSCL	12.000
15	HCV H77	2	32	10	B7	AIWVRSSIPL	12.000
16	HCV H77	2	6	9	в7	AGGRDGSCL	12.000
17	HCV H77	2	51	9	A24	TYRSSAPLL	200.000
18	HCV H77	2	12	9	A24	SCLPVALGL	10.080
19	HCV H77	2	32	10	A0201	AIWVRSSIPL	24.380
20	HCV H77	2	67	10	A0201	RMASGFWKTA	23.178
21	HCV H77	2	67	9	A0201	RMASGFWKT	76.695
22	HCV H77	2	58	10	A1	LLEALPGPWR	18.000
23	HCV H77	3	2	9	A0201	QQGTFLVAL	18.930
24	HCV H77	4	2	10	B3501	SPMIALTRVL	20.000
25	HCV H77	4	19	9	B8	SCTLRGVSL	16.000
26	HCV H77	4	2	10	в7	SPMIALTRVL	240.000
27	HCV H77	4	2	9	В7	SPMIALTRV	12.000
28	HCV H77	4	26	10	A3	SLAFARVTPR	12.000
29	HCV H77	4	24	9	A0201	GVSLAFARV	11.563
30	HCV H77	5	4	10	B3501	APRLGLLVSL	60.000
31	HCV H77	5	1	10	B3501	MPAAPRLGLL	20.000
32	HCV H77	5	1	10	B8	MPAAPRLGLL	16.000
33	HCV H77	5	4	10	B8	APRIGLLVSL	16.000 240.000
34	HCV H77	5	4	10	B7	APRLGLLVSL MPAAPRLGLL	80.000
35	HCV H77	5	1	10		GLLVSLHQA	42.278
36		5	8	9	A0201 B3501	CPQRACVARY	40.000
37		7	24 28	10 10	B7	ACVARYIASL	12.000
38		7 7	57	10	B7	VQMIRMSSSL	12.000
39 40		7	29	9	в7	CVARYIASL	20.000
41		7	12	9	в7	TAGTTLQDL	12.000
42		7	9	9	в7	NAPTAGTTL	12.000
43		7	36	10	A3	SLPAPWWWER	36.000
44		7	32	10	A24	RYIALPAPW	18.000
45		7	51	10		RLPTAGVQMI	23.995
46		7	57	10		VQMIRMSSSL	13.624
47		7	22	9	A0201	ALCPQRACV	69.552
48		7	16	9	A0201	TLQDLVALC	46.848
49		7	58	9	A0201	QMIRMSSSL	15.428

50	HCV H77	8	3	9	в3501	HPWPGRTVL	20.000
51	HCV H77	8	12	9	B3501	CPSSCSSAL	20.000
52	HCV H77	10	61	10	A24	RYCLGQPTEW	11.000
53	HCV H77	10	13	10	A24	RTTACEIWPL	8.000
54	HCV H77	10	2	10	A0201	CITISPLFET	13.669
55	HCV H77	10	9	9	B4403	FETGRTTAC	13.500
56	HCV H77	10	17	10	B4403	CEIWPLWNQS	20.000
57	HCV H77	10	55	10	B3501	LPVGARRYCL	20.000
58	HCV H77	10	32	10	B3501	RPSSSRGGQI	16.000
59	HCV H77	10	55	10	в8	LPVGARRYCL	16.000
б0	HCV H77	10	55	10	в7	LPVGARRYCL	120.000
61	HCV H77	11	33	10	A0201	TLWAGPLLKV	1.327.748
62	HCV H77	11	32	10	A24	KTLWAGPLL	12.000
63	HCV H77	11	25	10	A24	RCIPMWTKTL	14.400
64	HCV H77	11	13	10	A24	RGPSHHPRVL	12.000
65	HCV H77	11	33	9 '	A3	TLWAGPLLK	200.000
66	HCV H77	11	5	9	A3	GLSTTGPER	12.000
67	HCV H77	11	14	9	в7	GPSHHPRVL	80.000
68	HCV H77	11	18	9	в7	HPRVLSSRC	20.000
69	HCV H77	11	18	10	в7	HPRVLSSRCI	80.000
70	HCV H77	11	14	9	B3501	GPSHHPRVL	20.000
71	HCV H77	11	27	9	B3501	IPMWTKTLW	10.000
72	HCV H77	11	18	10	B3501	HPRVLSSRCI	24.000
73	HCV H77	12	7	9	B4403	GEVIAGVAC	18.000
74	HCV H77	12	7	10	B4403	GEVIAGVACF	360.000
75	HCV H77	13	40	10	B3501	CPRPMGLILI	24.000
76	HCV H77	13	27	10	B3501	TPLLLQRWAL	20.000
77	HCV H77	13	40	9	B3501	CPRPMGLIL	60.000
78	HCV H77	13	40	9	В8	CPRPMGLIL	16.000
79	HCV H77	13	27	10	в7	TPLLLQRWAL	120.000
80	HCV H77	13	20	10	в7	ATRCWCSTPL	120.000
81	HCV H77	13	5	10	в7	AAVRAPRSRL	81.000
82	HCV H77	13	40	10	в7	CPRPMGLILI	80.000
83	HCV H77	13	6		в7	AVRAPRSRL	1.350.000
84	HCV H77	13	40	9	В7	CPRPMGLIL	800.000
85	HCV H77	13	17	9	в7	QPRATRCWC	30.000
86	HCV H77	13	29	10	A0201	LLLQRWALVL	55.091
87	HCV H77	13	37	10	A0201	VLTCPRPMGL	36.316
88		13	30	10	A0201	LLQRWALVLT	29.137
89		13	29	9	A0201	LLLQRWALV	743.720
90		13	30	9	A0201	LLQRWALVL	14.890
91		13	28	9	A0201	PLLLQRWAL	13.042
92		14	22	9	A0201	WLCSPLLPL	226.014
93		14	27	9	A0201	LLPLRAPSL	36.316
94		14	9	9	A0201	ALSLTKQRL	21.362
95		14	31	9	A24	RAPSLCPIL	14.400
96		14	1	10		MPHPSWASAL	20.000
97		14	3	10		HPSWASALSL	20.000
98		14	36	10			20.000
99		14	18	10			12.000
	0 HCV H77	14		9	B3501		30.000
10	1 HCV H77	14	36	9	B3501	CPILTSRRL	20.000

102	HCV	н77	14	36	10	в7	CPILTSRRLL	120.000
103	HCV	н77	14	1	10	в7	MPHPSWASAL	80.000
104	HCV	н77	14	3	10	в7	HPSWASALSL	80.000
105	HCV	н77	14	14	10	в7	KQRLRGRDWL	60.000
106	HCV	н77	14	18	10	в7	RGRDWLCSPL	40.000
107	HCV	н77	14	8	10	в7	SALSLTKQRL	12.000
108	HCV	н77	14	36	9	в7	CPILTSRRL	80.000
109	HCV	н77	14	31	9	В7	RAPSLCPIL	12.000
110	HCV	н77	14	9	9	в7	ALSLTKQRL	12.000
111	HCV	H77	14	34	9	A3	SLCPILTSR	13.500
112	HCV	н77	14	18	10	A24	RGRDWLCSPL	11.520
113	HCV	н77	15	3	10	в7	WPTTAVLTCL	80.000
114	HCV	H77	15	17	10	в7	AAMLSSCRPM	27.000
115	HCV	н77	15	18	10	в7	AMLSSCRPML	18.000
116	HCV	H77	15	1	9	B3501	MPWPTTAVL	20.000
117	HCV	H <b>7</b> 7	15	3	10	B3501	WPTTAVLTCL	20.000
118	HCV	H <b>7</b> 7	15	1	9	В7	MPWPTTAVL	80.000
119	HCV	н77	15	18	10	A0201	AMLSSCRPML	57.085
120	HCV	н77	15	11	10	A0201	CLSSRPAAML	21.362
121	HCV	н77	15	19	9	A0201	MLSSCRPML	36.316
122	HCV	н77	16	3	10	B3501	SPGLNAGAGL	20.000
123	HCV	н77	16	52	9	B3501	RPPRLQLGY	80.000
124	HCV	н77	16	3	10	в7	SPGLNAGAGL	80.000
125	HCV	н77	16	38	10	в7	SVSAMTRAVL	30.000
126	HCV	н77	16	47	10	в7	LGMSSRPPRL	12.000
127	HCV	н77	16	13	10	в7	AGGSQASIDL	12.000
128	HCV	н77	16	33	10	в7	STRPSSVSAM	10.000
129	HCV	н77	16	50	9	в7	SSRPPRLQL	90.000
130	HCV	н77	16	11	10	A0201	GLAGGSQASI	10.433
131	HCV	н77	16	48	9	A0201	GMSSRPPRL	15.428
132	HCV	н77	17	8	9	B3501	QSRVGRTFL	15.000
133	HCV	н77	17	5	10	в7	YPRQSRVGRT	20.000
134	HCV	н77	17	8	9	в7	QSRVGRTFL	60.000
135	HCV	н77	17	7	10	A0201	RQSRVGRTFL	11.913
136	HCV	н77	18	4	10	B3501	HPCYTDWALF	30.000
137	HCV	н77	18	4	9	в3501	HPCYTDWAL	20.000
138	HCV	н77	18	4	9	в7	HPCYTDWAL	80.000
139	HCV	н77	18	6	10	A24	CYTDWALFRM	30.000
140	HCV	н77	18	7	10	A1	YTDWALFRMK	25.000
141	HCV	н77	19	6	10	A3	ALSTYRTSSK	20.000
142	HCV	н77	20	39	9	A24	RCLVTPPLL	12.000
143	HCV	н77	20	37	10	в7	CQRCLVTPPL	40.000
144	HCV	н77	20	10	10	B3501	RPTGRNSRSF	40.000
145	HCV	н77	21	2	9	в7	MARAWRELL	180.000
146	HCV	Н77	21	2	9	В8	MARAWRELL	16.000
147	HCV	H77	22	11	10	A1	AMQPPASLPY	12.500
148	HCV	Н77	22	17	9	A1	SLPYSAASL	21.362
149	HCV	H77	22	10	9	A24	RAMQPPASL	12.000
150	HCV	н77	22	11	10	A3	AMQPPASLPY	12.000
151	HCV	н77	22	10	9	B7	RAMQPPASL	54.000
152	HCV	н77	22	3	10	в7	PPRTTCRRAM	30.000
153	HCV	н77	22	16	10	в7	ASLPYSAASL	12.000
				4				

- 151 -

154	HCV	н77	22	3	10	в3501	PPRTTCRRAM	12.000
155	HCV	н77	24	6	10	A24	PYLQKFCGSL	30.000
156	HCV	н77	24	7	9	A0201	YLQKFCGSL	48.544
157	HCV	н77	25	96	10	в3501	RSVVGPTRKM	20.000
158	HCV	н77	25	27	10	в3501	QPYLLPWPSL	20.000
159	HCV	н77	25	75	10	в3501	LPCPPWRGSL	20.000
160	HCV	н77	25	24	10	в3501	SPNQPYLLPW	10.000
161	HCV	н77	25	33	9	в3501	WPSLPPKVL	20.000
162	HCV	н77	25	72	9	в3501	SPILPCPPW	10.000
163	HCV	н77	25	2	10	в8	AARYHLHGPL	16.000
164	HCV	н77	25	2	10	в7	AARYHLHGPL	360.000
165	HCV	н77	25	75	10	в7	LPCPPWRGSL	120.000
166	HCV	н77	25	27	10	в7	QPYLLPWPSL	120.000
167	HCV	н77	25	65	10	в7	APPTPTLSPI	24.000
168	HCV	н77	25	33	9	в7	WPSLPPKVL	120.000
169	HCV	н77	25	63	9	в7	LAAPPTPTL	18.000
170	HCV	н77	25	116	9	в7	QAHSSPRAL	12.000
171	HCV	н77	25	41	9	в7	LAAPQLPAL	12.000
172	HCV	н77	25	50	9	в7	RATIRQHPL	12.000
173	HCV	н77	25	30	10	A3	LLPWPSLPPK	30.000
174	HCV	H77	25	4	10	A24	RYHLHGPLLC	10.000
175	HCV	H <b>7</b> 7	25	4	9	A24	RYHLHGPLL	400.000
176	HCV	н77	25	28	9	A24	PYLLPWPSL	30.000
177	HCV	н77	25	54	9	A24	RQHPLSPPL	11.520
178	HCV	и77	25	11	10	A0201	LLCLRLGKSV	118.238
179	HCV	и77	25	40	10	A0201	VLAAPQLPAL	83.527
180	HCV	т н77	25	62	10	A0201	LLAAPPTPTL	36.316
181	HCV	<b>н7</b> 7	25	104	10	A0201	KMSCAAQCLI	26.372
182	HCV	и н77	25	104	9	A0201	KMSCAAQCL	53.999
183	HCV	7 н77	25	83	9	A0201	SLGIRISAT	17.140
184	HCV	7 н77	25	62	9	A0201	LLAAPPTPT	12.668
185	HCV	7 н77	25	35	9	A0201	SLPPKVLAA	11.426
186	HCV	7 н77	25	45	9	A0201	QLPALRATI	10.433
 187	HCV	7 н77	25	118	9	A1	HSSPRALRK	15.000
188	HCV	7 н77	27	57	10	B4403	ATAGAARAAY	27.000
189	HCV	<i>I</i> Н77	27	30	10	B3501	KPAWPSSLSL	40.000
190	HCV	7 Н77	27	33	10	B3501	WPSSPSLRGF	20.000
191	HCV	/ н77	27	36	9	в3501	SPSLRGFML	20.000
192	HCV	<i>ј</i> н77	27	35	9	B3501	SSPSLRGFM	10.000
193	HC	<i>ј</i> н77	27	36	9	B8	SPSLRGFML	16.000
194	HC/	<i>ј</i> н77	27	2	10	B7	IPAVLTPQSL	80.000
		<i>J</i> H77	27	30	10	в7	KPAWPSSLSL	80.000
		J H77	27	38	10	В7	SLRGFMLGAL	40.000
		J H77	27	15	10	B7	SVRRRQFTNV	10.000
		J H77	27	36	9	В7	SPSLRGFML	80.000
		J H77	27	46	9	A3	ALLPIQGGK	20.000
		J H77	27	19	10	A0201	RQFTNVVTWT	35.364
		V H77	27	42	9	A0201	FMLGALLPI	294.957
		V H77	28	48	9	B4403	EEAGLPYVA	12.000
		V H77	28	31	10	B4403	CELGDTGPGA	12.000
		V H77	28	48	10	B4403	EEAGLPYVAS	12.000
205	HC7	V H77	28	46	9	B3501	CPEEAGLPY	24.000

20	6 HCV	н77	28	37	9	B3501	GPGASALGF	20.000
20	7 HCV	H77	28	3	10	в7	SAHFHSTVTL	12.000
20	8 HCV	H77	28	44	9	A24	GFCPEEAGL	24.000
20	9 HCV	н77	28	25	9	A0201	NLGSRPCEL	21.362
21	O HCV	н77	28	46	9	A1	CPEEAGLPY	56.250
21	.1 HCV	н77	29	3	9	B4403	GPAGSGFAY	13.500
21	.2 HCV	н77	29	3	9	B3501	GPAGSGFAY	40.000
21	.3 HCV	н77	29	1	9	B3501	MPGPAGSGF	20.000
21	4 HCV	н77	33	47	10	B4403	GELGEGPGSA	12.000
21	.5 HCV	н77	33	50	10	B4403	GEGPGSAAAI	12.000
21	.6 HCV	H77	33	5	9	B4403	DELVPYGSV	24.000
21	.7 HCV	н77	33	47	9	B4403	GELGEGPGS	12.000
21	.8 HCV	н77	33	92	10	B3501	HPTDQHQRQL	40.000
21	.9 HCV	н77	33	74	9	B3501	RPHHGWACW	20.000
22	0 HCV	н77	33	36	9	B3501	SPGGHSVFL	20.000
22	1 HCV	н77	33	92	10	В7	HPTDQHQRQL	80.000
22	22 HCV	н77	33	36	9	В7	SPGGHSVFL	80.000
22	3 HCV	н77	33	41	9	в7	SVFLHGGEL	20.000
22	4 HCV	н77	33	33	10	A0201	SLGSPGGHSV	69.552
22	5 HCV	н77	34	37	10	B3501	SSRFPLIDTL	15.000
22	26 HCV	н77	34	40	9	B3501	FPLIDTLYL	30.000
22	7 HCV	н77	34	34	10	В8	LARSSRFPLI	80.000
22	8 HCV	н77	34	26	9	В8	QCGPRPCGL	16.000
22	9 HCV	н77	34	34	9	в8	LARSSRFPL	16.000
23	0 HCV	н77	34	37	10	В7	SSRFPLIDTL	40.000
23	31 HCV	н77	34	34	10	в7	LARSSRFPLI	12.000
2	32 HCV	н77	34	34	9	в7	LARSSRFPL	180.000
23	33 HCV	H77	34	40	9	в7	FPLIDTLYL	80.000
2:	34 HCV	H <b>7</b> 7	34	39	10	A24	RFPLIDTLYL	60.000
2:	35 HCV	н77	34	46	9	A24	LYLRLLGPL	360.000
2:	36 HCV	н77	34	33	10	A0201	GLARSSRFPL	193.902
2:	37 HCV	H77	34	45	10	A0201	TLYLRLLGPL	20.440
2:	38 HCV	H77	34	40	9	A0201	FPLIDTLYL	13.054
2:	39 HCV	н77	35	14	9	В8	GARWRRPGC	16.000
2	40 HCV	н77	35	23	10	В7	SGRVLPVNRL	60.000
24	41 HCV	н77	35	5	9	в7	RPGGRHEHL	80.000
	42 HCV		35	19	9	В7	RPGCSGRVL	80.000
	43 HCV		35	40	10	A0201	RLVREAGNYT	40.986
	44 HCV		36	47	9	B4403	ASVDKLGVY	27.000
	45 HCV		36	2	9	B4403	DEPANSLRL	12.000
	46 HCV		36	62	10	B3501	LAKGHLGLDM	18.000
	<b>47</b> HCV		36	47	9	B3501	ASVDKLGVY	20.000
	48 HCV		36	58	10	B7	MLRFLAKGHL	40.000
	49 HCV		36	53	10	B7	GVYHSMLRFL	20.000
	50 HCV		36	44	9	B7	EATASVDKL	12.000
	51 HCV		36	51	10	A3	KLGVYHSMLR	24.000
	52 HCV		36	68	9	A3	GLDMRGAER	12.000
	53 HCV		36	60	10	A24	RFLAKGHLGL	60.000
	54 HCV		36	54	9	A24	VYHSMLRFL	200.000
	55 HCV		36	53	10	A0201	GVYHSMLRFL	15.133
	56 HCV		36	61	9	A0201	FLAKGHLGL	98.267
2	<b>57</b> HCV	n//	36	51	9	A0201	KLGVYHSML	74.768

- 153 -

258	HCV	н77	36	68	9	A1	GLDMRGAER	10.000
259	HCV	н77	36	5	9	в3501	RPGGRHEHL	40.000
260	HCV	н77	36	19	9	B3501	RPGCSGRVL	40.000
261	HCV	н77	37	40	10	B3501	TPRVPGGVAI	24.000
262	HCV	н77	37	18	9	B3501	APTQVCAPL	20.000
263	HCV	н77	37	43	9	в3501	VPGGVAITL	20.000
264	HCV	н77	37	40	10	в7	TPRVPGGVAI	80.000
265	HCV	н77	37	42	10	в7	RVPGGVAITL	20.000
26€	HCV	н77	37	1	10	в7	MPVPDPIARI	12.000
267	HCV	н77	37	17	10	В7	GAPTQVCAPL	12.000
268	HCV	н77	37	18	9	в7	APTQVCAPL	240.000
269	HCV	н77	37	43	9	в7	VPGGVAITL	80.000
270	HCV	н77	37	21	9	в7	QVCAPLQAL	30.000
273	L HCV	н77	37	40	9	в7	TPRVPGGVA	30.000
272	HCV	H77	37	42	10	A24	RVPGGVAITL	16.800
273	HCV	н77	37	35	9	A0201	IIQSRTPRV	16.258
274	HCV	н77	37	3	9	A1	VPDPIARIF	12.500
27	HCV	н77	38	8	10	в7	RPRRRWKEGL	800.000
27	HCV	H <b>7</b> 7	38	8	10	B3501	RPRRRWKEGL	120.000
27'	7 HCV	н77	39	1	10	B3501	MPQKTWGPAL	20.000
27	B HCV	H77	39	12	9	A1	SLETPGPER	18.000
27	HCV	н77	39	4	10	A0201	KTWGPALASL	19.824
28	O HCV	н77	39	1	10	в7	MPQKTWGPAL	80.000
28:	1 HCV	н77	40	47	9	B3501	CPAPLVLVL	20.000
28	2 HCV	н77	40	57	10	B3501	TPARCRGRHL	20.000
28	3 HCV	н77	40	57	10	В8	TPARCRGRHL	16.000
28	4 HCV	н77	40	58	9	B8	PARCRGRHL	32.000
28	5 HCV	H77	40	57	10	в7	TPARCRGRHL	80.000
28	6 HCV	н77	40	42	10	в7	SQRVSCPAPL	40.000
28	7 HCV	H77	40	44	10	в7	RVSCPAPLVL	20.000
28	8 HCV	H77	40	27	9	в7	LVRLVHGWL	200.000
28	9 HCV	н77	40	47	9	в7	CPAPLVLVL	80.000
29	0 HCV	н77	40	58	9	в7	PARCRGRHL	12.000
29	1 HCV	н77	40	65	9	A3	HLPPPQPMK	45.000
29	2 HCV	н77	40	29	9	A3	RLVHGWLQR	12.000
29	3 HCV	н77	40	22	9	A24	RWPAGLVRL	12.000
29	4 HCV	н77	40	26	10	A0201	GLVRLVHGWL	15.274

Table 4n H77 (4-6)

No	Strain	ORF	HLA	Start	Sequence	Score
1	HCV H77	1	B4403	4	REASISTLC	12
2	HCV H77	1	B4403	4	REASISTLCS	12
3	HCV H77	1	в7	2	ICREASISTL	40
4	HCV H77	1	в8	2	ICREASISTL	24
5	HCV H77	2	в7	16	CVGAPRPIL	45
6	HCV H77	2	B8	6	AARACKGAQT	16
7	HCV H77	3	B7	11	DAVASGAGL	12
8	HCV H77	4	A68.1	22	PVQRCRWRR	20
9	HCV H77	4	A68.1	21	SPVQRCRWR	10

WO 2004/011650 PCT/EP2003/008112 - 154 -

10	HCV H77	4	A68.1	30	RQLGQHPQR	10
11	HCV H77	4	A68.1	21	SPVQRCRWRR	10
12	HCV H77	4	B3501	5	LPPRPRHTL	20
13	HCV H77	4	в3501	8	RPRHTLQEC	12
14	HCV H77	4	B3501	19	GPSPVQRCRW	10
15	HCV H77	4	B4403	3	QELPPRPRHT	16
1.6	HCV H77	4	в7	5	LPPRPRHTL	180
17	HCV H77	4	в7	8	RPRHTLQEC	20
18	HCV H77	4	в7	23	VQRCRWRRQL	60
19	HCV H77	5	A0201	10	ALTGPPSIV	28,52
20	HCV H77	5	A0201	2	KQWRGYQAA	21,95
21	HCV H77	5	A0201	2	KQWRGYQAAL	62,92
22	HCV H77	6	A68.1	10	RTSSLSGRR	50
23	HCV H77	6	A68.1	2	RPASRRARR	10
24	HCV H77	7	A0201	11	KLLCHKHLL	276,64
25	HCV H77	7	A0201	12	LLCHKHLLST	29,14
26	HCV H77	7	A0201	18	LLSTRRRQGT	12,67
27	HCV H77	7	A24	11	KLLCHKHLL	12
28	HCV H77	7	A68.1	20	STRRRQGTCR	50
29	HCV H77	7	A68.1	7	GTRHKLLCHK	45
30	HCV H77	7	B3501	3	HPWSGTRHKL	20
31	HCV H77	7	B <b>7</b>	3	HPWSGTRHKL	120
32	HCV H77	8	B3501	10	SPQGLGPHW	10
33	HCV H77	8	B3501	10	SPQGLGPHWY	40
34	HCV H77	9	A68.1	3	WSSFRPRGR	15
35	HCV H77	9	B3501	7	RPRGRQSSI	48
36	HCV H77	9	в7	7	RPRGRQSSI	80
37	HCV H77	9	В8	7	RPRGRQSSI	40
38	HCV H77	10	A1	2	ATESAPLTR	112,5
39	HCV H77	10	A68.1	57	DTTQSRRTR	150
40	HCV H77	10	A68.1	2	ATESAPLTR	50
41	HCV H77	10	A68.1	<sup>*</sup> 63	RTRGRTQDR	50
42	HCV H77	10	A68.1	39	EATSRRGRR	15
43	HCV H77	10	A68.1	6	APLTRQEQR	10
44	HCV H77	10	A68.1	35	GAGGEATSR	10
45	HCV-H77	1-0	A681		TTRPPPCPVR	
46	HCV H77	10	A68.1	58	TTQSRRTRGR	50
47	HCV H77	10	A68.1	6	APLTRQEQRR	15
48	HCV H77	10	A68.1	41	TSRRGRRPLR	15
49	HCV H77	10	A68.1	35	GAGGEATSRR	10
50	HCV H77	10	B3501	19	RPPPCPVRM	80
51	HCV H77	10	B3501	41	TSRRGRRPL	15
52	HCV H77	10	В7	41	TSRRGRRPL	60
53	HCV H77	10	B7	19	RPPPCPVRM	20
54	HCV H77	10	B7	40	ATSRRGRRPL	18
55	HCV H77	11	A68.1	8	GSNQWGRAR	15
5 <b>6</b>	HCV H77	11	A68.1	6	VCGSNQWGR	10
57	HCV H77	11	A68.1	5	DVCGSNQWGR	600
58	HCV H77	11	B3501	14	RARCCCPPL	18
59	HCV H77	11	B7	14	RARCCCPPL	120
60	HCV H77	13	A0201	2	ALPGGGVLEA	11,43
61	HCV H77	13	A1	8	VLEAARHSY	45
62	HCV H77	13	B7	1	MALPGGGVL	12
63	HCV H77	14	A68.1	8	RSRQNQNQR	15

64	HCV H77	15	A24	29	SFLRHAATL	30
65	HCV H77	15	A24	29	SFLRHAATLL	30
66	HCV H77	15	A68.1	1	MAALPPLDR	10
67	HCV H77	15	A68.1	10	SLARTLRAR	10
68	HCV H77	15	A68.1	9	RSLARTLRAR	30
69	HCV H77	15	в7	30	FLRHAATLL	40
	HCV H77	15	в7 в7	3	ALPPLDRSL	12
70		15	в7	11	LARTLRARCL	120
71	HCV H77		в7 в7	2	AALPPLDRSL	36
72	HCV H77	15		11	LARTLRARCL	320
73	HCV H77	15	B8	33	CLAVSHAAL	21,36
74	HCV H77	17	A0201	21	MIMLPSQEL	18,48
75	HCV H77	17	A0201	22	IMLPSQELT	16,59
76	HCV H77	17	A0201	23	MLPSQELTGV	271,95
77	HCV H77	17	A0201	25 8	VISIILAHSV	16,26
78	HCV H77	17	A0201			15,43
79	HCV H77	17	A0201	20 3	NMIMLPSQEL	10,8
80	HCV H77	17	A3		TLKKWVISI	200
81	HCV H77	17	A68.1	35	AVSHAALAR	10
82	HCV H77	17	A68.1	34	LAVSHAALAR	10
83	HCV H77	17	A68.1	40	ALARGVVGSR	10
84	HCV H77	17	B3501	15	HSVGANMIM	24
85	HCV H77	17	B4403	27	QELTGVCLA	12
86	HCV H77	17	B4403	. 27	QELTGVCLAV	20
87	HCV H77	17	B7	16	SVGANMIML	18
88	HCV H77	17	B7	21	MIMLPSQEL	
89	HCV H77	18	A68.1	6	SPAARQAAR	10
90	HCV H77	18	A68.1	1	MVQSWSPAAR	200
91	HCV H77	18	A68.1	5	WSPAARQAAR	15
92	HCV H77	18	B3501	8	AARQAARALM	18
93	HCV H77	18	B7	8	AARQAARAL	360
94	HCV H77	18	B7	8	AARQAARALM	135 16
95	HCV H77	18	B8	8	AARQAARAL	10,51
96	HCV H77	20	A0201	15	YENPIGVFL	
97	HCV H77	20	A0201	13	VSYENPIGV	10,13 90
98	HCV H77	20	A1	6	TVESKQRVSY SYENPIGVF	
	HCV-H77					420
100		20	A24 A3	14 2	SYENPIGVFL SLSVTVESK	60
101				4	SUTVESKQR	200
102		20	A68.1	3	LSVTVESKQR	30
103		20 20	A68.1	1	MSLSVTVESK	18
104		20	A68.1	17	NPIGVFLDF	20
105			B3501	31	NFIGVEDE	10
100		20	B3501	13	VSYENPIGVF	10
107		20	B3501	7		120
108		20	B4403		VESKQRVSY	11,25
109		20	B4403	17	NPIGVFLDF	293,63
11(		22	A0201	20	LMWATAFLA	
11:		22	A0201	19	ELMWATAFL	32,6
11:		22	A0201	26	FLAWQRTSFA	125,69
113		22	A0201	9	TLSSRRSFHT	43,22
114		22	A0201	1	MMVVSIGVTL	26,23
11!		22	A1	17	HTELMWATAF	22,5
110		22	A24	25	AFLAWQRTSF	15
11'	7 HCV H77	22	A68.1	23	ATAFLAWQR	100

118	HCV H77	22	A68.1	5	SIGVTLSSR	10
119	HCV H77	22	A68.1	4	VSIGVTLSSR	30
120	HCV H77	22	A68.1	5	SIGVTLSSRR	10
121	HCV H77	22	B3501	11	SSRRSFHTEL	15
122	HCV H77	22	B4403	18	TELMWATAF	180
123	HCV H77	22	B4403	18	TELMWATAFL	18
124	HCV H77	22	В7	2	MVVSIGVTL	20
125	HCV H77	22	в7	19	ELMWATAFL	12
126	HCV H77	22	в7	11	SSRRSFHTEL	40
127	HCV H77	24	A0201	17	KAVDRVDSV	15,62
128	HCV H77	24	A0201	11	LVASSAKAV	10,35
129	HCV H77	24	A0201	10	LLVASSAKAV	118,24
130	HCV H77	24	A0201	9	KLLVASSAKA	64,34
131	HCV H77	24	A1	1	MPEVEELPK	22,5
132	HCV H77	24	A3	9	KLLVASSAK	90
133	HCV H77	24	A68.1	18	AVDRVDSVR	300
134	HCV H77	24	A68.1	13	ASSAKAVDR	15
135	HCV H77	24	A68.1	3	EVEELPKLL	12
136	HCV H77	24	A68.1	21	RVDSVRTTVR	200
137	HCV H77	24	A68.1	24	SVRTTVRFFR	200
138	HCV H77	24	A68.1	17	KAVDRVDSVR	15
139	HCV H77	24	A68.1	3	EVEELPKLLV	12
140	HCV H77	24	В4403	5	EELPKLLVA	36
141	HCV H77	24	B4403	5	EELPKLLVAS	24
142	HCV H77	24	B4403	23	DSVRTTVRFF	18
143	HCV H77	24	в7	1	MPEVEELPKL	24
144	HCV H77	25	A0201	52	NLLPAASAV	257,34
145	HCV H77	25	A0201	60	VIWEGSVSM	39,52
146	HCV H77	25	A0201	125	GIWHGHLRL	24,38
147	HCV H77	25	A0201	132	RLSVVIPDT	17,14
148	HCV H77	25	A0201	7	CLHRRLASM	11,43
149	HCV H77	25	A0201	29	ALRDGADSWL	36,61
150	HCV H77	25	A0201	52	NLLPAASAVI	15,83
151	HCV H77	25	A1	82	NCDPTGYSW	10
152	HCV H77	25	A24	102	KGLQGGANL	12
153-					- WLAVQVALR	
154	HCV H77	25	A3	103	GLQGGANLCR	36
155	HCV H77	25	A3	1	MLPPISCLHR	12
156	HCV H77	25	A68.1	23	WLAVQVALR	10
157	HCV H77	25	A68.1	92	PTLNDTSSR	10 10
158	HCV H77	25	A68.1	104	LQGGANLCR	11,25
159	HCV H77	25	A68.1	1	MLPPISCLHR	10
160	HCV H77	25	A68.1	104	LOGGANLCRR	10
161	HCV H77	25	B3501	54	LPAASAVIW	18
162	HCV H77	25	B4403	20	GESWLAVQVA	12
163	HCV H77	25	B7	42	LAIEGGDPL	120
164	HCV H77	25	B7	29	ALRDGADSWL AVIWEGSVSM	15
165	HCV H77	25	B7	59		12
166	HCV H77	25	B8	29	ALRDGADSWL	
167	HCV H77	26	A0201	12	VLGPTILIV	111,5 95,44
168	HCV H77	26	A0201	62 22	GMSLAFSQV FLTCPVISA	52,56
169 170	HCV H77	26 26	A0201	9	FLQVLGPTI	47,99
170 171	HCV H77	26 26	A0201	9 16	TILIVPFLT	21,99
171	HCV H77	26	A0201	Τ.0	TIDIALIDI	لالابتداء

- 157 -

						16,05
172	HCV H77	26	A0201	17	ILIVPFLTC	•
173	HCV H77	26	A0201	19	IVPFLTCPV	10,35
174	HCV H77	26	A0201	84	SLSQEPEHGV	69,55
175	HCV H77	26	A0201	9	FLQVLGPTIL	40,29
176	HCV H77	26	A0201	27	VISAPQWQRV	27,64
177	HCV H77	26	A0201	38	IMPSPRQTPL	26,23
178	HCV H77	26	A0201	62	GMSLAFSQVL	24,04
179	HCV H77	26	A0201	11	QVLGPTILIV	21,23
180	HCV H77	26	A0201	18	LIVPFLTCPV	16,26
181	HCV H77	26	A0201	3	NVPLHMFLQV	. 11,56
182	HCV H77	26	A24	66	AFSQVLKSL	28
183	HCV H77	26	A3	64	SLAFSQVLK	20
184	HCV H77	26	A3	46	PLYPRWQDTK	45
185	HCV H77	26	A68.1	35	RVCIMPSPR	200
186	HCV H77	26	A68.1	92	GVVHSELIH	12
187	HCV H77	26	A68.1	26	PVISAPQWQR	40
188	HCV H77	26	A68.1	63	MSLAFSQVLK	18
189	HCV H77	26	B3501	14	GPTILIVPF	20
190	HCV H77	26	B3501	39	MPSPRQTPL	20
191	HCV H77	26	B3501	57	IPGSCGMSL	20
192	HCV H77	26	B3501	25	CPVISAPQW	. 10
193	HCV H77	26	B3501	30	APQWQRVCIM	40
194	HCV H77	26	B3501	39	MPSPRQTPLY	40
195	HCV H77	26	B3501	48	YPRWQDTKGI	36
196	HCV H77	26	в3501	4	VPLHMFLQVL	20
197	HCV H77	26	в3501	14	GPTILIVPFL	20
198	HCV H77	26	в3501	74	LSTSHIQSQM	10
199	HCV H77	26	в4403	87	QEPEHGVVHS	12
200	HCV H77	26	в7	39	MPSPRQTPL	80
201	HCV H77	26	в7	57	IPGSCGMSL	80
202	HCV H77	26	в7	30	APQWQRVCI	36
203	HCV H77	26	в7	4	$\mathtt{VPLHMFLQVL}$	80
204	HCV H77	26	в7	14	GPTILIVPFL	80
205	HCV H77	26	в7	48	YPRWQDTKGI	80
206	HCV H77	26	в7	30	APQWQRVCIM	60
207	HCV-H77	- 26 -	B7	65	LAFSQVLKSL	12
208	HCV H77	26	В8	39	MPSPRQTPL	16
209	HCV H77	27	в7	2	AVTRAAASL	60
210	HCV H77	27	в7	1	MAVTRAAASL	12
211	HCV H77	28	A0201	76	MLKRRVWPV	71,39
212	HCV H77	28	A0201	80	RVWPVVSGL	35,68
213	HCV H77	28	A0201	95	AINEAMAGL	27,7
214	HCV H77	28	A0201	132	CQLVWTAGV	26,09
215	HCV H77	28	A0201	127	KTSSFCQLV	12,85
216	HCV H77	28	A0201	75	NMLKRRVWPV	3206,06
217	HCV H77	28	A0201	87	GLVTAAVKAI	24
218	HCV H77	28	A0201	19	ILNATRAPAT	12,67
219		28	A0201	84	VVSGLVTAAV	10,35
220			A1	70	ATHPPNMLK	25
221			A1	70	ATHPPNMLKR	12,5
222			A24	112	KYCIPLMKF	220
223			A24	80	RVWPVVSGL	13,44
224			A24	123	CFAQKTSSF	10
225			A24	94	KAINEAMAGL	12
	,					

- 158 -

						20.25
226	HCV H77	28	A3	163	SIIPCSMYGK	20,25
227	HCV H77	28	A68.1	27	ATPAPYPAR	50
228	HCV H77	28	A68.1	70	ATHPPNMLK	45
229	HCV H77	28	A68.1	70	ATHPPNMLKR	75
230	HCV H77	28	A68.1	142	TSAWRDAVCR	30 18
231	HCV H77	28	A68.1	85	VSGLVTAAVK	15
232	HCV H77	28	A68.1	44	PTLPMAAPAR	10
233	HCV H77	28	A68.1	15	SPLMILNATR	10
234	HCV H77	28	A68.1	100	MAGLPGSVDR	10
235	HCV H77	28	A68.1	137	TAGVITSAWR	40
236	HCV H77	28	B3501	28	TPAPYPARM RPAKYCIPL	40
237	HCV H77	28	B3501	109	GSVDRPAKY	20
238	HCV H77	28	B3501	105	RAPATPAPY	12
239	HCV H77	28	B3501	24 152	RPRAFCLNC	12
240	HCV H77	28	B3501	152 9	SSVEGTSPL	10
241	HCV H77	28	B3501	162	ASIIPCSMY	10
242	HCV H77	28	B3501	109	RPAKYCIPLM	80
243	HCV H77	28	B3501	115	IPLMKFHMCF	20
244	HCV H77	28	B3501	9	SSVEGTSPLM	20
245	HCV H77	28 28	B3501 B3501	32	YPARMSTRTF	20
246	HCV H77	28	B3501	152	RPRAFCLNCS	12
247	HCV H77 HCV H77	28	B3501	8	RSSVEGTSPL	10
248	HCV H77	28	B3501	160	CSASIIPCSM	10
2 <b>4</b> 9 250	HCV H77	28	B4403	162	ASIIPCSMY	45
250 251	HCV H77	28	B4403	97	NEAMAGLPGS	12
252	HCV H77	28	в7	109	RPAKYCIPL	80
253	HCV H77	28	в7	69	AATHPPNML	54
254	HCV H77	28	в7	28	TPAPYPARM	20
255	HCV H77	28	в7	80	RVWPVVSGL	20
256	HCV H77	28	в7	152	RPRAFCLNC	20
257	HCV H77	28	в7	92	AVKAINEAM	15
258	HCV H77	28	в7	95	AINEAMAGL	12
259	HCV H77	28	в7	37	STRTFPSPTL	60
-260	HCV H77	28	в7	149	VCRRPRAFCL	40
261	HCV H77-	28	в7	109	RPAKYCIPLM	20
262	HCV H77	28	в7	68	WAATHPPNML	18
263	HCV H77	28	в7	94	KAINEAMAGL	12
264	HCV H77	28	в7	125	AQKTSSFCQL	12
265	HCV H77	28	B8	76	MLKRRVWPV	24
266	HCV H77	28	B8	149	VCRRPRAFCL	320
267	HCV H77	29	A0201	39	YLVIGCVRV	319,94
268	HCV H77	29	A0201	37	MMYLVIGCV	81,71
269	HCV H77	29	A0201	36	VMMYLVIGC	51,91
270	HCV H77	29	A0201	36	VMMYLVIGCV	94,47
271	HCV H77	29	A1	31	SADMHVMMY	125
272	HCV H77		A1	2	TTQPVDRQY	12,5
273	HCV H77		A24	16	RTPPTSTQVL	17,28
274	HCV H77		A3	37	MMYLVIGCVR	30
275			A68.1	5	PVDRQYAAR	20 10
276			A68.1	22	TQVLVTTSR	50
277			A68.1	21	STQVLVTTSR	10
278			A68.1	4	QPVDRQYAAR	40
279	HCV H77	29	B3501	30	RSADMHVMM	±0

- 159 -

280	HCV H77	29	B3501	17	TPPTSTQVL	20
281	HCV H77	29	B3501	28	TSRSADMHVM	45
282	HCV H77	29	B3501	30	RSADMHVMMY	40
283	HCV H77	29	B4403	31	SADMHVMMY	18
284	HCV H77	29	B4403	30	RSADMHVMMY	18
285	HCV H77	29	в7	17	TPPTSTQVL	80
286	HCV H77	29	в7	14	AARTPPTST	13,5
287	HCV H77	29	в7	28	TSRSADMHVM	10
288	HCV H77	29	в8	11	AARAARTPPT	16
289	HCV H77	30	A0201	5	SLTVVSAGV	69,55
290	HCV H77	31	В7	3	EGRSPGATNL	40
291	HCV H77	32	A68.1	4	FPLPVLPRR	15
292	HCV H77	32	B3501	1	MPGFPLPVL	20
293	HCV H77	32	в7	1	MPGFPLPVL	120
294	HCV H77	33	A0201	3	KVGSRLKSTV	21,3
295	HCV H77	33	A68.1	1	MVKVGSRLK	120
296	HCV H77	34	A68.1	13	LVGMTDTSR	600
297	HCV H77	35	A24	6	SFAASSSHF	10
298	HCV H77	35	A24	15	FFEWQKMRCL	30
299	HCV H77	35	A24	6	SFAASSSHFF	10
300	HCV H77	35	A68.1	22	RCLPPLITSR	15
301	HCV H77	35	A68.1	11	SSHFFFEWQK	13,5
302	HCV H77	36	A0201	6	TVTEPGGVAV	24,95
303	HCV H77	36	A1	7	VTEPGGVAV	45
304	HCV H77	36	A1	7	VTEPGGVAVA	45
305	HCV H77	36	A68.1	22	APAVSAWSR	10
306	HCV H77	36	в3501	34	MPKMDVASV	18
307	HCV H77	36	в3501	28	WSRTVPMPKM	30
308	HCV H77	36	B3501	25	VSAWSRTVPM	10
309	HCV H77	36	в4403	8	TEPGGVAVA	18
310	HCV H77	36	B4403	8	TEPGGVAVAS	13,5
311	HCV H77	36	в7	13	VAVASTTSL	12
312	HCV H77	36	в7	12	GVAVASTTSL	20
313	HCV H77	36	в7	28	WSRTVPMPKM	15
314	HCV H77	37	A0201	14	ILGSTPWAL	272,37
			A0201	13 -	LILGSTPWA	23., 63
316	HCV H77	37	A0201	2	GLPVVIVLT	17,14
317			A0201	7	IVLTPVLIL	11,09
318	HCV H77		A0201	13	LILGSTPWAL	138,57
319	HCV H77	37	A0201	12	VLILGSTPWA	46,45
320	HCV H77	37	A24	1	MGLPVVIVL	10,08
321	HCV H77	37	B3501	16	GSTPWALDM	10
322	HCV H77	37	в7	7	IVLTPVLIL	30
323	HCV H77	37	в7	5	VVIVLTPVL	20
324	HCV H77	38	A0201	14	ALATPRVHTA	11,43
325	HCV H77	38	A68.1	19	RVHTAALNR	200
326	HCV H77	38	A68.1	11	KSTALATPR	15
327	HCV H77	28	A68.1	2	VVPRFSTGIK	120
328	HCV H77	38	A68.1	36	NSGPPEEPFK	40,5
329	HCV H77	38	A68.1	1	MVVPRFSTGI	12
330		38	B3501	17	TPRVHTAAL	60
331		38	B7	17	TPRVHTAAL	800
		38	в7	16	ATPRVHTAAL	12
332			в7 В8	17	TPRVHTAAL	16
333	HCV H77	38	Бо	Τ,	TINGLIAML	

- 160 -

334	HCV H77	39	A24	3	RGESRLPLL	12
335	HCV H77	39	A3	18	GMTSACLVTR	18
336	HCV H77	39	A68.1	19	MTSACLVTR	50
337	HCV H77	39	A68.1	8	LPLLSPRRR	10
338	HCV H77	39	A68.1	5	ESRLPLLSPR	45
339	HCV H77	39	в3501	11	LSPRRRTGM	10
340	HCV H77	39	в7	12	SPRRRTGMT	20
341	HCV H77	39	в7	1	MGRGESRLPL	60
342	HCV H77	39	В8	12	SPRRRTGMT	16
343	HCV H77	40	A0201	4	PLGDAMVLV	14,43
344	HCV H77	40	B3501	3	GPLGDAMVL	30
345	HCV H77	40	в7	3	GPLGDAMVL	80
346	HCV H77	41	A0201	77	LMMSPHAAV	315,96
347	HCV H77	41	A0201	22	FLSRPVRLV	147,17
348	HCV H77	41	A0201	15	WTSPSTWFL	56,3
349	HCV H77	41	A0201	6	KVWVAVDTI	29,89
350	HCV H77	41	A0201	8	WVAVDTIWT	16,5
351	HCV H77	41	A0201	31	IIHPRRPLV	16,26
352	HCV H77	41	A0201	45	VMGASNLHPL	60,33
353	HCV H77	41	A0201	22	FLSRPVRLVI	19,68
354	HCV H77	41	A0201	30	VIIHPRRPLV	16,26
355	HCV H77	41	A24	21	WFLSRPVRL	30
356	HCV H77	41	A24	42	AYAVMGASNL	200
357	HCV H77	41	A68.1	89	HVMSLVSIR	400
358	HCV H77	41	A68.1	103	STATARSRR	100
359	HCV H77	41	A68.1	100	TTGSTATAR	100
360	HCV H77	41	A68.1	91	MSLVSIREK	18
361	HCV H77	41	A68.1	102	GSTATARSR	15
362	HCV H77	41	A68.1	28	RLVIIHPRR	10
363	HCV H77	41	A68.1	111	RPLCAQSRR	10
364	HCV H77	41	A68.1	19	STWFLSRPVR	50
365	HCV H77	41	A68.1	99	KTTGSTATAR	50
366	HCV H77	41	A68.1	26	PVRLVIIHPR	20
367	HCV H77	41	A68.1	16	TSPSTWFLSR	15
368	HCV H77	41	A68.1	102	GSTATARSRR	15
369	-HCV H77	41	A68.1	113	LCAQSRRGVR_	10
370	HCV H77	41	B3501	33	HPRRPLVCW	30
371	HCV H77	41	B3501	61	GPSSISWPL	20
372	HCV H77	41	B3501	116	QSRRGVRWL	15
373	HCV H77	41	в3501	116	QSRRGVRWLY	30
374	HCV H77	41	B4403	71	AETGKPLMM	18
375	HCV H77	41	B4403	71	AETGKPLMMS	18
376	HCV H77	41	в7	61	GPSSISWPL	80
377	HCV H77	41	в7	116	QSRRGVRWL	40
378	HCV H77	41	в7	105	ATARSRRPL	18
379	HCV H77	41	в7	43	YAVMGASNL	12
380	HCV H77	41	в7	84	AVSAPHVMSL	60
381	HCV H77	41	в7	29	LVIIHPRRPL	45
382	HCV H77	41	в7	87	APHVMSLVSI	24
383	HCV H77	41	в7	33	HPRRPLVCWA	20
384	HCV H77	41	в7	104	TATARSRRPL	18
385	HCV H77	41	в7	60	AGPSSISWPL	12
386	HCV H77	41	в7	115	AQSRRGVRWL	12
387	HCV H77	41	в8	106	TARSRRPLC	16
23,						

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388	HCV H77	41	B8	23	LSRPVRLVII	20
389	HCV H77	41	В8	106	TARSRRPLCA	16
390	HCV H77	42	A0201	5	SLVMSNTRV	69,55
391	HCV H77	42	A0201	21	KMTASRPPRT	18,84
392	HCV H77	42	A3	21	KMTASRPPR	12
393	HCV H77	42	A68.1	4	SSLVMSNTR	30
394	HCV H77	42	A68.1	24	ASRPPRTLR	22,5
395	HCV H77	42	A68.1	38	CSCASTLVR	15
396	HCV H77	42	A68.1	12	RVGCTTHMSK	240
397	HCV H77	42	A68.1	3	RSSLVMSNTR	15
398	HCV H77	42	B4403	40	CASTLVRKY	13,5
399	HCV H77	42	B4403	39	SCASTLVRKY	54
400	HCV H77	42	В7	23	TASRPPRTL	18
401	HCV H77	42	в7	10	NTRVGCTTHM	10
402	HCV H77	43	A0201	95	VQLQAASSL	13,62
403	HCV H77	43	A0201	102	SLCSTPPTYI	57,38
404	HCV H77	43	A0201	33	MLDPTPYKYC	27,87
405	HCV H77	43	A1	33	MLDPTPYKY	500
406	HCV H77	43	A24	40	KYCTSTMFW	10
407	HCV H77	43	A24	88	RSQRSPRVQL	12
408	HCV H77	43	A24	94	RVQLQAASSL	12
409	HCV H77	43	A24	38	PYKYCTSTMF	10
410	HCV H77	43	A24	40	KYCTSTMFWW	10
411	HCV H77	43	A3	45	TMFWWRWMR	180
412	HCV H77	43	A3	32	AMLDPTPYK	45
413	HCV H77	43	A3	33	MLDPTPYKY	18
414	HCV H77	43	A3	32	AMLDPTPYKY	18
415	HCV H77	43	A68.1	42	CTSTMFWWR	50
416	HCV H77	43	A68.1	10	QTRASASRR	50
41.7	HCV H77	43	A68.1	83	LSLSSRSQR	30
418	HCV H77	43	A68.1	13	ASASRRNRR	30
419	HCV H77	43	A68.1	9	EQTRASASR	15
420	HCV H77	43	A68.1	80	SSDLSLSSR	15
421	HCV H77	43	A68.1	86	SSRSQRSPR	15
422	HCV H77	43	A68.1	45	TMFWWRWMR	10
	- HCV-H7-7	43 -	A681	44	STMFWWRWMR	100
424	HCV H77	43	A68.1	31	DAMLDPTPYK	18
425	HCV H77	43	A68.1	3	NIIHKQEQTR	15
426	HCV H77	43	A68.1	9	EQTRASASRR	15
427	HCV H77	43	A68.1	79	LSSDLSLSSR	15
428	HCV H77	43	A68.1	82	DLSLSSRSQR	15
429	HCV H77	43	A68.1	85	LSSRSQRSPR	15
430	HCV H77	43	A68.1	54	PVDKAGRVVK	12
431	HCV H77	43	в3501	106	TPPTYILTL	20
432	HCV H77	43	B3501	53	RPVDKAGRV	16
433	HCV H77	43	B3501	37	TPYKYCTSTM	40
434		43	в3501	15	ASRRNRRTTY	30
435		43	в3501	53	RPVDKAGRVV	16
436		43	в3501	24	YSHLMAQDAM	10
437		43	B3501	43	TSTMFWWRWM	10
438		43	в3501	88	RSQRSPRVQL	10
439		43	B3501	101		10
440		43	B4403	31	DAMLDPTPY	27
441		43	B4403	30	ODAMLDPTPY	45
441	ncv H//	43	D4403	30	XDIMIDI AL I	

- 162 -

440	11017 1177	7 40	D4403	101	SSLCSTPPTY	12
442	HCV H77		B4403			90
443	HCV H77		B7	89	SQRSPRVQL	80
444	HCV H77		B7	106	TPPTYILTL	20
445	HCV H7		B7	71	CVVDSSNGL	
446	HCV H7		B7	92	SPRVQLQAA	20
447	HCV H7		в7	26	HLMAQDAML	12
448	HCV H7		в7	18	RNRRTTYSHL	40
449	HCV H7		в7	37	TPYKYCTSTM	20
450	HCV H7		в7	94	RVQLQAASSL	20
451	HCV H7		В8	86	SSRSQRSPRV	12
452	HCV H7	7 44	A0201	67	VLLRTKTSV	437,48
453	HCV H7	7 44	A0201	46	TLVNPVEFI	64,67
454	HCV H7	7 44	A0201	31	VLLPTPPMT	46,87
455	HCV H7	7 44	A0201	23	KQSVGQSKV	24,68
456	HCV H7	7 44	A0201	53	FIQVQPNQL	13,51
457	HCV H7	7 44	A0201	60	QLPSGGLVLL	49,13
458	HCV H7	7 44	A0201	66	LVLLRTKTSV	38,28
459	HCV H7	7 44	A0201	47	LVNPVEFIQV	19,66
460	HCV H7	7 44	A24	52	EFIQVQPNQL	36
461	HCV H7	7 44	A68.1	15	YVASGCLRK	240
462	HCV H7	7 44	A68.1	5	VIQGPEPHR	11,25
463	HCV H7	7 44	A68.1	4	GVIQGPEPHR	900
464	HCV H7	7 44	в3501	61	LPSGGLVLL	20
465	HCV H7	7 44	в4403	57	QPNQLPSGGL	20
466	HCV H7	7 44	в7	61	LPSGGLVLL	80
467	HCV H7	7 44	в7	25	SVGQSKVLL	20
468	HCV H7	7 44	в7	43	APHTLVNPV	12
469	HCV H7	7 44	в7	57	QPNQLPSGGL	120
470	HCV H7	7 45	A0201	11	WMFCLAPGV	854,95
471	HCV H7	7 45	A0201	7	VLISWMFCL	484,46
472	HCV H7	7 45	A0201	6	LVLISWMFC	25,57
473	HCV H7	7 45	A0201	6	LVLISWMFCL	156,84
474	HCV H7	7 45	A0201	3	QLPLVLISWM	62,85
475	HCV H7	7 45	A0201	7	VLISWMFCLA	16,05
476	HCV H7	7 45	A0201	26	AVVRPAFPPV	11,56
 477	HCV-H7	7 - 45-	-A0201	54	AQFPTMEKYA	
478	HCV H7	7 45	A3	7	VLISWMFCL	12,15
479	HCV H7	7 45	A68.1	13	FCLAPGVRR	10
480	HCV H7		B3501	56	FPTMEKYAM	60
481	HCV H7	7 45	B3501	4	LPLVLISWM	40
482	HCV H7	7 45	B3501	24	SPAVVRPAF	20
483	HCV H7	7 45	B3501	29	RPAFPPVTW	20
484	HCV H7	77 45	B3501	4	LPLVLISWMF	20
485	HCV H7	77 45	в7	4	LPLVLISWM	20
486	HCV H7	77 45	в7	56	FPTMEKYAM	20
487	HCV H7	77 45	в7	27	VVRPAFPPV	10
488	HCV H7	77 45	в7	6	LVLISWMFCL	20
489	HCV H7		в7	18	GVRRPTSPAV	10
490	HCV H7		A68.1	1	MSMMACGIR	30
491	HCV H7		A0201	8	TILELGQSL	44,56
492	HCV H7		A0201	8	TILELGQSLV	145,08
493	HCV H		A24	8	TILELGQSL	10,37
494	HCV H7		B4403	10	LELGQSLVT	12
495	HCV H		B4403	10	LELGQSLVTW	54

- 163 -

						2.6
496	HCV H77	47	B7	4	AASYTILEL	36
497	HCV H77	47	в7	2	ASAASYTIL	12
498	HCV H77	47	в7	1	MASAASYTIL	12
499	HCV H77	47	в7	3	SAASYTILEL	12
500	HCV H77	48	A24	8	KPHVRVSMTL	11,2
501	HCV H77	48	A68.1	13	VSMTLPKLR	30
502	HCV H77	48	A68.1	26	GSVGPQLGR	30
503	HCV H77	48	A68.1	12	RVSMTLPKLR	200
504	HCV H77	48	A68.1	15	MTLPKLRDLR	150
505	HCV H77	48	A68.1	10	HVRVSMTLPK	120
506	HCV H77	48	A68.1	31	QLGREPRGDR	10
507	HCV H77	48	в3501	42	HPAHPQPSL	20
508	HCV H77	48	B3501	8	KPHVRVSMTL	40
509	HCV H77	48	в3501	6	SAKPHVRVSM	18
510	HCV H77	48	в7	42	HPAHPQPSL	120
511	HCV H77	48	в7	12	RVSMTLPKL	20
512	HCV H77	48	в7	8	KPHVRVSMTL	80
513	HCV H77	48	в7	35	EPRGDRSHPA	20
514	HCV H77	48	в7	2	YPMRSAKPHV	12
515	HCV H77	48	в8	35	EPRGDRSHPA	32
516	HCV H77	48	в8	19	KLRDLRRGSV	18
517	HCV H77	49	A0201	22	GLSRPNTTRL	21,36
518	HCV H77	49	A24	15	PYQAVPQGL	50,4
519	HCV H77	49	A24	25	RPNTTRLAVL	12
520	HCV H77	49	A3	22	GLSRPNTTR	18
521	HCV H77	49	A3	33	VLRGHAQISR	12
522	HCV H77	49	A68.1	27	NTTRLAVLR	50
523		49	A68.1	17	QAVPQGLSR	15
524	HCV H77	49	A68.1	16	YQAVPQGLSR	10
525	HCV H77	49	в3501	8	LPGHSQAPY	40
526	HCV H77	49	в3501	23	LSRPNTTRL	15
527	HCV H77	49	в3501	25	RPNTTRLAVL	40
528	HCV H77	49	в3501	14	APYQAVPQGL	20
529	HCV H77	49	в7	23	LSRPNTTRL	40
530	HCV H77	49	в7	14	APYQAVPQGL	240
531			в7	25	RPNTTRLAVL	
532	HCV H77	50	A0201	2	RLTDLSQLA	20,37
533		50	A0201	2	RLTDLSQLAV	285,16
534		50	A1	15	KMEPPLKKGK	90
535		50	A24	49	KWLKRPECL	12
536		50	A3	15	KMEPPLKKGK	45
537		50	A68.1	5	DLSQLAVTR	15
538		50	A68.1	17	EPPLKKGKR	15
539		50	B3501	61	SSVGEEVDAY	15
540		50	B4403	65	EEVDAYPCS	12
541		50	В4403	61	SSVGEEVDAY	54
542		50	в7	11	VTRAKMEPPL	40
543		51	A0201	32	FELCSYCPV	34,53
544		51	A1	29	WSEFELCSY	67,5
545		51	A24	36	SYCPVEEVL	336
546			A24	27	RYWSEFELC	12
547			A24	75	KFSEACGHPI	12
548			A24	27	RYWSEFELCS	10
548				7	NVSPAVASR	300
545	. 11CV H//	- J-	1100.1	•		

550	HCV H77	51	A68.1	64	PVSPSSQGR	30
551	HCV H77	51	A68.1	19	GQVQPASGR	10
552	HCV H77	51	A68.1	42	EVLATYGSPA	24
553	HCV H77	51	A68.1	63	GPVSPSSQGR	10
554	HCV H77	51	в3501	38	CPVEEVLATY	80
555	HCV H77	51	в4403	41	EEVLATYGS	18
556	HCV H77	51	в4403	77	SEACGHPIDF	160
557	HCV H77	51	в4403	38	CPVEEVLATY	13,5
558	HCV H77	51	в4403	15	REPTGQVQPA	12
559	HCV H77	51	в4403	59	ADAPGPVSPS	12
560	HCV H77	51	в7	25	SGRYWSEFEL	40
561	HCV H77	53	в3501	8	RPQCGGKHDY	80
562	HCV H77	54	A1	2	ATDVFCPIAK	125
563	HCV H77	54	A24	5	VFCPIAKLGF	12
564	HCV H77	54	A68.1	4	DVFCPIAKL	24
565	HCV H77	54	A68.1	2	ATDVFCPIAK	30
566	HCV H77	54	в7	4	DVFCPIAKL	30
567	HCV H77	55	в7	2	WGRQAASFL	40
568	HCV H77	56	A0201	13	FLLPLASTA	84,56
569	HCV H77	56	A0201	5	NLQSVKCDFL	57,57
570	HCV H77	56	A0201	6	LQSVKCDFLL	21,36
571	HCV H77	56	A68.1	2	AVQNLQSVK	120
572	HCV H77	56	в7	8	SVKCDFLLPL	20
573	HCV H77	57	A0201	6	FVVRLFPRL	16,34
574	HCV H77	57	A24	5	WFVVRLFPRL	43,2
575	HCV H77	57	в7	6	FVVRLFPRL	20
576	HCV H77	58	A68.1	16	ASRGAGHRR	15
577	HCV H77	58	A68.1	1	MVGGASCLER	400
578	HCV H77	58	A68.1	14	QLASRGAGHR	15
579	HCV H77	59	A0201	9	RQHGYVRFGL	12,56
580	HCV H77	59	A1	4	ISEHGRQHGY	67,5
581	HCV H77	59	A24	9	RQHGYVRFGL	11,2
582	HCV H77	59	в4403	5	SEHGRQHGY	360
583	HCV H77	59	B4403	5	SEHGRQHGYV	12
584	HCV H77	60	A0201	48	KVAQHLAYPV	21,3
585	HCV H77-	60	A3	46	GLKVAQHLAY	24
586	HCV H77	60	A68.1	40	ELGFQPGLK	18
587	HCV H77	60	A68.1	27	LAGHKGNPR	10
588	HCV H77	60	A68.1	26	ALAGHKGNPR	10
589	HCV H77	60	B3501	33	NPRQLWHEL	60
590	HCV H77	60	B3501	44	QPGLKVAQHL	20
591	HCV H77	б0	B3501	18	SSPDPPIPAL	10
592	HCV H77	60	B4403	39	HELGFQPGL	12
593	HCV H77	60	в7	33	NPRQLWHEL	800
594	HCV H77	60	в7	19	SPDPPIPAL	36
595	HCV H77	60	в7	44	QPGLKVAQHL	80
596	HCV H77	60	в7	28	AGHKGNPRQL	12
597	HCV H77	60,	B8	33	NPRQLWHEL	16
598	HCV H77	61	A24	14	EYGSDAGGCI	50
599	HCV H77	61	A68.1	18	DAGGCIALR	30
600	HCV H77	61	A68.1	22	CIALRHVVR	10
601	HCV H77	61	A68.1	21	GCIALRHVVR	10
602	HCV H77	61	B4403	5	QELGYSEAA	12
603	HCV H77	61	B4403	13	AEYGSDAGGC	18

- 165 -

604	HCV H77	61	B4403	10	SEAAEYGSDA	16
605	HCV H77	62	A0201	16	LLSEHHPLL	148,9
606	HCV H77	62	A0201	5	GLQEAEGLL	11,39
607	HCV H77	62	A0201	5	GLQEAEGLLL	87,59
608	HCV H77	62	A24	4	RGLQEAEGL	12
609	HCV H77	62	A24	4	RGLQEAEGLL	12
610	HCV H77	62	B4403	9	AEGLLLELL	12
611	HCV H77	62	B4403	18	SEHHPLLDV	12
612	HCV H77	62	B4403	7	QEAEGLLLEL	12
613	HCV H77	63	A0201	37	KVLPTLLCL	55,67
614	HCV H77	63	A0201	29	GLVRYQVRKV	31,99
615	HCV H77	63	A0201	33	YQVRKVLPTL	22,92
616	HCV H77	63	A24	37	KVLPTLLCL	14,4
617	HCV H77	63	A24	32	RYQVRKVLPT	15
618	HCV H77	63	A3	29	GLVRYQVRK	270
619	HCV H77	63	A68.1	9	QTLPHLVPR	150
620	HCV H77	63	A68.1	37	KVLPTLLCL	12
621	HCV H77	63	A68.1	8	DQTLPHLVPR	15
622	HCV H77	63	B4403	25	SAHGGLVRY	13,5
623	HCV H77	63	B4403	1	MEGGFKADQT	13,5
624	HCV H77	63	в7	34	QVRKVLPTL	200
625	HCV H77	63	в7	14	LVPRWGRGL	20
626	HCV H77	63	в7	37	KVLPTLLCL	20
627	HCV H77	63	в7	30	LVRYQVRKV	10
628	HCV H77	63	в7	30	LVRYQVRKVL	300
629	HCV H77	63	в7	34	QVRKVLPTLL	200
630	HCV H77	64	A0201	8	ALPKFKMVL	33,28
631	HCV H77	64	A0201	15	VLAHGKPRGV	23,65
632	HCV H77	64	A0201	8	ALPKFKMVLA	11,43
633	HCV H77	64	A68.1	14	MVLAHGKPR	400
634	HCV H77	64	A68.1	13	KMVLAHGKPR	10 12
635	HCV H77	64	B3501	20	KPRGVHVRS ALPKFKMVL	12
636	HCV H77	64	B7	8 7	DALPKFKMVL	12
637	HCV H77	64	B7	9	LPKFKMVLA	16
638	HCV H77	64	B8	72		
639		65	A0201	71	GVALVTNYYV	33,47
640	HCV H77	65	A0201	7	HLEGDSLAVK	36
641	HCV H77 HCV H77	65	A3	, 7	HLEGDSLAVK	45
642 643	HCV H77	65	A68.1	42	SSGEHNQSR	30
644	HCV H77	65	A68.1	31	RMGHSDGAR	15
645	HCV H77	65	A68.1	62	DAQDGCGIR	15
646	HCV H77	65	A68.1	41	GSSGEHNQSR	15
647	HCV H77	65	A68.1	29	DVRMGHSDGA	12
648	HCV H77	65	A68.1	31	RMGHSDGARR	10
649	HCV H77	65	B3501	48	QSRPRSLCL	15
650	HCV H77	65	B3501	24	QSNLLDVRM	10
651	HCV H77	65	B4403	70	RGVALVTNY	27
652	HCV H77	65	B4403	70	RGVALVTNYY	13,5
653	HCV H77	65	в7	48	QSRPRSLCL	40
654		65	В8	48	QSRPRSLCL	80
655		65	в8	66	GCGIRGVAL	16
656		66	A0201	51	ALGHCWWRGV	23,65
657		66	A0201	43	SMQVGHLEAL	17,39

658	HCV H77	66	A68.1	50	EALGHCWWR	30
659	HCV H77	66	A68.1	22	HLVALGCVR	10
660	HCV H77	66	A68.1	24	VALGCVRSR	10
661	HCV H77	66	A68.1	23	LVALGCVRSR	400
662	HCV H77	66	A68.1	7	STKAQRCSNR	50
663	HCV H77	66	B4403	49	LEALGHCWW	24
664	HCV H77	66	в7	28	CVRSRDLGAL	200
665	HCV H77	66	в7	14	SNRGVEHQHL	40
666	HCV H77	66	в7	25	ALGCVRSRDL	12
667	HCV H77	66	в7	40	AGGSMQVGHL	12
668	HCV H77	67	A68.1	1	MVIHIGASK	240
669	HCV H77	67	A68.1	1	MVIHIGASKR	400
670	HCV H77	69	A68.1	14	VAHPSDDTR	11,25
671	HCV H77	69	A68.1	13	VVAHPSDDTR	600
672	HCV H77	69	B4403	9	AEQGVVAHPS	27
673	HCV H77	69	B4403	19	DDTRGRSAHF	15
674	HCV H77	70	A0201	59	KLRCGEFAV	107,3
675	HCV H77	70	A0201	52	KQIDMTSKL	31,08
67 <i>6</i>	HCV H77	70	A1	44	RAEGGAPDK	36
677	HCV H77	70	A24	52	KOIDMTSKL	15,84
678	HCV H77	70	A24	3	RYMAGIDRT	15
678 679	HCV H77	70	A24	3	RYMAGIDRTI	210
680	HCV H77	70	A24	93	RSVQDGIGRL	12
681	HCV H77	70	A68.1	18	PVAPGREGK	36
682	HCV H77	70	A68.1	93	RSVQDGIGR	30
683	HCV H77	70	A68.1	36	AQVPHVEGR	15
684	HCV H77	70	A68.1	26	KQLTNKKDR	10
685	HCV H77	70	A68.1	101	RLVHNTRVR	10
686	HCV H77	70	A68.1	111	IIGDMVKPR	10
687	HCV H77	70	A68.1	1	MTRYMAGIDR	50
688	HCV H77	70	A68.1	67	VPGGHRGGHR	15
689	HCV H77	70	A68.1	84	TLANARDTPR	15
690	HCV H77	70	A68.1	52	KQIDMTSKLR	10
691	HCV H77	70	A68.1	98	GIGRLVHNTR	10
692	HCV H77	70	A68.1	110	AIIGDMVKPR	10
					APGREGKQL	30
694	HCV H77	70	B3501	117	KPRGIAHLV	24
695	HCV H77	70	B3501	91	TPRSVQDGI	24
696	HCV H77	70	B3501	77	HPTPRGVTL	20
697	HCV H77	70	в3501	57	TSKLRCGEF	15
698	HCV H77	70	B3501	107	RVRAIIGDM	12
699	HCV H77	70	в3501	48	GAPDKQIDM	12
700	HCV H77	70	B3501	93	RSVQDGIGRL	10
701	HCV H77	70	B4403	45	AEGGAPDKQI	18
702	HCV H77	70	в7	20	APGREGKQL	240
703	HCV H77	70	в7	77	HPTPRGVTL	80
704	HCV H77	70	в7	91	TPRSVQDGI	80
705	HCV H77	70	в7	107	RVRAIIGDM	50
706	HCV H77	70	в7	117	KPRGIAHLV	40
707	HCV H77	70	в7	94	SVQDGIGRL	20
707	HCV H77	70	в7	79	TPRGVTLANA	20
709	HCV H77	70	в7	115	MVKPRGIAHL	20
710		70	в7	6	AGIDRTIAVL	12
711		70	в7	19	VAPGREGKQL	12
, 11	110 / 11//	, 0			~ '	

- 167 -

712	HCV H77	70	в7	107	RVRAIIGDMV	10
713	HCV H77	70	в8	77	HPTPRGVTL	16
714	HCV H77	70	в8	29	TNKKDRPAQV	12

## Example 1.2: Immunogenicity of ncHCV peptides according to the present invention:

To determine if the peptides provided with the present invention are potentially immunogenic, three peptides from HCV 1b for the HLA-A\*0201 allele were chosen and HLA-A\*0201 transgenic mice (HHD) vaccinated therewith.

## Example 1.2.1: Vaccination of Mice with ncORFs according to the present invention (Ipep 1371, Ipep 1372, Ipep 1373)

HLA-A\*0201-transgenic mice (5 per group) were vaccinated subcutaneously as follows:

- 1) 1371 (HCV-H77 ncORF(1-3)11 TLWAGPLLKV) + CpG 1668
- 2) 1372 (HCV-H77 ncORF(1-3)13 LLLQRWALV) + CpG 1668
- 3) 1373 (HCV-H77 ncORF(1-3)27 FMLGALLPI) + CpG 1668

7 days after the vaccination draining lymph nodes were removed and the cells were activated ex vivo with peptides to determine the number of IFN-g-producing peptide-specific T cells (Elispot assay). As can be seen in Figure 1, all peptides induce high numbers of peptide-specific T cells ("Background" means "Medium Control", i.e. cells cultured without peptide).

## Example 1.2.2: Vaccination of Mice with ncORFs according to the present invention (Ipep 1445, Ipep 1447)

HLA-A\*0201-transgenic mice (5 per group) were vaccinated subcutaneously as follows:

- 1) 1445 (HCV-1b ncORF(1-3)36 RLLQLKYCV + CpG 1668
- 2) 1447 (HCV-1b ncORF(1-3)36 FLYLPLSFAV + CpG 1668

7 days after the vaccination spleens were removed and the cells were activated ex vivo with peptides to determine the number of

- 168 -

IFN-g-producing peptide-specific T cells (Elispot assay). As can be seen in Figure 2, both peptides induce high numbers of peptide-specific T cells ("Background" means "Medium Control", i.e. cells cultured without peptide).

## Example 1.3: HCV patient in vivo relevance of the ncHCV peptides according to the present invention:

Since those ncORF peptides are immunogenic in tg-mice, the present peptides were analysed in an ELIspot assay on PBL's from HCV+ patients.

# Example 1.3.1: Elispot with HCV patient-derived cells and with ncORFs according to the present invention (Ipep 1371, Ipep 1372, Ipep 1373)

The patient had a chronic HCV infection in 1992 that was cured under IFN-alpha mono-therapy from 1993 to 1994. Patient-derived peripheral blood mononuclear cells (PBMC) frozen in 1996 were thawed to perform an IFN-g Elispot assay with the following peptides:

1)	1371	(HCV-H77 ncORF(1-3)11	TLWAGPLLKV)
2)	1372	(HCV-H77 ncORF(1-3)13	LLLQRWALV)
3)	1373	(HCV-H77 ncORF(1-3)27	FMLGALLPI)
4)	1006	(HCV-derived)	MWNFISGIQYLAGLSTLPGN
5)	84	(HCV-derived)	GYKVLVLNPSVAAT
6)	CMV	pp65	NLVPMVATV
7)	Influ	uenza A Matrix (aa58-67)	GILGFVFTL

As can be seen in Table 5 and Figure 3, the peptides 1371, 1372, and 1373 as well as the positive control peptides (CMV-derived, Influenza-derived) induce high numbers of peptide-specific T cells.

Peptide	Counts-mean size >10	Counts-mean size >25	Counts-mean size >75
1373	159	86	3
1372	43	36	13
1371	24	15	2
Medium-control	2	1	O
РНА	Confluent	Confluent	Confluent
Flu-Ma	48	36	17
CMV	28	17	6

Table 5: ELIspot results

## Example 1.4: Peptides from reading frames 4 to 6 are immunogenic in transgenic mice

(Ipep 1490, Ipep 1491; Ipep 1492; Ipep 1493; Ipep 1494, Ipep 82) HLA-A\*0201-transgenic mice (5 per group) were vaccinated subcutaneously as follows:

- 1) 1490 (HCV-1b ncORF(4-6) KMLNRRVLWV) + CpG 1668
- 2) 1491 (HCV-1b ncORF(4-6) VLLMCQLPLV) + CpG 1668
- 3) 1492 (HCV-1b ncORF(4-6) MLNRRVLWVV) + CpG 1668
  - 4) 1493 (HCV-1b ncORF(4-6) TILELEQSFV) + CpG 1668
  - 5) 1494 (HCV-1b ncORF(4-6) KMMSPHAAV) + CpG 1668
  - 6) 82 (EBV, control GLCTLVAML) + CpG 1668

7 days after the vaccination spleens were removed and the cells were activated ex vivo with peptides to determine the number of IFN-g-producing peptide-specific T cells (Elispot assay). As can be seen in Figure 4, two of the four peptides (#1491, #1494) induce high numbers of peptide-specific T cells.

With the present HCV model according to example 1, it could be clearly demonstrated that

- within different ORFs of a viral genome possible encoded CTL epitopes may be identified,

- 170 -

- peptides of those ORF's are immunogenic in tg-mice, especially also in reading frames 4 to 6 and
- give positive ELIspot results in HCV+ patients, i.e. are relevant pathological parameters in HCV infections.

#### Example 2: HIV

In the present example, the genome of HIV was analysed according to the present invention with respect to its non coding ORFs. The results are depicted in table 6. From there the HIV-ncORFs with a minimum length of 7 amino acid residues or those being longer than 7 amino acid residues are deriveable which may preferably be used as antigens for the preparation of a HIV vaccine.

More preferred, ORFs having a minimum length of 9 amino acid residues are selected from table 6, especially if they are T-cell antigens, B-cell antigens or both.

The HIV-ORFs are therefore preferably selected from ORF-Nos. 13, 23, 27, 69 and 80 in Table 6.

No.of ORF	Start	Stop Sequence	Length
1	336	1874 GAG-sequence	
2	380	424 MGKNSVKARGKEKI	14
3	440	474 MGKQGARTIRS	11
4	793	804 MHG	3
6	952	1020 MRKLQNGIECIQCMQGLLHQAR	22
7	968	976 MG	2
8	1079	1093 MDDK	4
9	1127	1150 MDNPGIK	7
10	1222	1227 M	1
11	1309	1338 MRTQIVRLF	9
12	1382	1411 MSGSGRTRP	9
13	1580	1618 MWKGRTPNERLY	12
14	1631	4674 POL-sequence (no Initiation Meth.)	
15	1920	1934 MIQY	4
16	1940	4674 POL-sequence	
17	1957	2013 METKNDRGNWRFYQSKTV	18

- 171 -

18	2010	2027 MIRYS	5
19	2181	2209 MAQKLNNGH	9
20	2200	2289 MAIDRRKNKSISRNLYRNGKGRENFKNWA	29
21	2341	2373 MEKISRFQRT	10
22	2460	2492 MWVMHIFQFP	10
23	2493	2537 MKTSGSILHLPYLV	14
24	2541	2624 MRHQGLDISTMCFHRDGKDHQQYSKVA	27
25	2685	2699 MICM	4
26	2826	2864 MNSILINGQYSL	12
27	2845	2898 MDSTAYSAARKRQLDCQ	17
28	2895	2912 MTYRS	5
29	2968	2973 M	1
30	3075	3106 MECIMTHQKT	10
31	3139	3171 MDISNLSRAI	10
32	3192	3227 MQERGVPTLMM	11
33	3277	3294 MGKDS	5
		33336	
34	3322	9 MGNMVDRVLASHLDS	15
35	3406	3471 MVPVRERTHSRSRNVLCRWGS	21
36	3453	3458 M	1
37	3459	3488 MGQLAGRLN	9
38	3501	3539 MLLIEEDKKLSP	12
39	3633	3640 MH	2
40	3733	3768 MGTSTQRNWRK	11
41	3765	3776 MNK	3
42	3819	3827 ME	2
43	3840	3905 MNMRNITVIGEQWLVILTCHL	21
44	3937	3981 MSAKRRSHAWTSRL	14
45	3963	3974 MDK	3
		MATRLYTFRRKSYPGSSSCSQWIYRSRSYSSRNRAGNSILSFKISRK-	
46	3991	4191 MASKNNTYRQWQQFHQYYG	66
47	4044	4049 M	1
49	4623	5190 VIF-SEQUENCE	
50	4682	4729 MEKFSKTPYVCFRES	15
51	4711	4776 MFQGKLGDGFIDITMKALIQE	21
52	4733	4744 MVL	3
53	4804	4818 MLDW	4
54	4886	4906 MEEKEI	6
55	5141	5427 VPR-SEQUENCE	
56	5191	5220 MDTRAFRGA	9

- 172 -

57	5223	5267 MKLLDIFLGFGSMA	14
58	5280	5321 MKLMGILGQEWKP	13
59	5412	5626 TAT-1-SEQUENCE	
60	5551	5626 REV-1-SEQUENCE	
61	5638	5643 M	1
62	5643	5884 VPU-SEQUENCE	
63	5803	. 8384 ENV-SEQUENCE	
65	6065	6070 M	1
66	6095	6107 MTW	3
67		MGSKPKAMCKINPT	14
68		MRI	3
69	6209	6259 MLLIPIVVIPIVVAGK	16
70	6335	6361 MHFFINLI	8
71	6374	6397 MILPAIR	7
72	6498	6503 M	1
73	6518	6580 MEQDHVQMSAQYNVHMELGQ	20
7 <b>4</b>	6531	6572 MYKCQHSTMYTWN	13
75	6602	6613 MAV	3
76	6656	6670 MLKP	4
77	6828	6857 MECHFKTDS	9
78	6833	6844 MPL	3
79	7068	7148 MQNKTIYKHVAGSRKSNVCPSHQRTN	26
80	7121	7180 MPLPSADKLDVHQILQGCY	19
81	7148	7196 MFIKYYRAAINKRWW	15
82	7187	7243 MVVITTMGPRSSDLEEEI	18
83	7649	7696 MLVGVINLWNRFGIT	15
84	7784	7807 MNKNYWN	7
85	7812	7838 MGKFVELV	8
86	8264	8278 MPQP	4
87	8390	9006 NEF-SEQUENCE	
88	8425	8460 MAYCKGKNETS	11
89	8472	8564 MGWEQHLETWKNMEQSQVAIQQLPMLLVPG	30
90	8809	8835 MVLQASTS	8
91	8901	8933 MEWMTLREKC	1.0
92	9097	9147 MLHISS	6

Table 6

Non-coding HIV-ORFs = all ORFs, except GAG, POL, VIF, VPR, TAT, REV, VPU, ENV and NEF (ORF-Nos. 1, 14, 16, 49, 55, 59, 60, 62,

WO 2004/011650

- 173 -

PCT/EP2003/008112

63 and 87 in Table 6)

HIV selected ORFs: ORF-Nos. 2, 3, 6, 9, 11, 12, 13, 17, 19, 20, 21, 22, 23, 24, 26, 27, 30, 31, 32, 34, 35, 37, 38, 40, 43, 44, 46, 48, 50, 56, 57, 58, 64, 67, 69, 70, 71, 73, 74, 77, 79, 80, 81, 82, 83, 84, 85, 88, 89, 90 and 91 in Table 6.

### 3. Human Papilloma Virus (HPV)

In this example, possible ncORF epitopes with superior immunisation properties of HPV are identified as in Example 1 for HCV epitopes. The results are depicted in the following table 7:

No	Species	strain	Frame	ORF	HLA	Sequence	Score	Length
1	HPV	type 16	1	2	A68.1	IVCPICSQK	180,00	9
2	HPV	type 16	1	3	B*2705	LQKGDY <b>L</b> K	200,00	8
3	HPV	type 16	1	3	B*5102	MAILKWKL	181,50	8
4	HPV	type 16	1	3	B*5103	KAKTAGMAI	133,10	9
5	HPV	type 16	1	3	B*5102	KAKTAGMAI	110,00	9
6	HPV	type 16	ī	3	A*0201	GMAILKWKL	115,71	9
7	HPV	type 16	1	3	Cw*0401	DYLKAKTAGM	120,00	10
8	HPV	type 16	1	3	B*5801	KTAGMAILKW	348,48	10
9	HPV	type 16	1	3	в62	ILKWKLSRCY	312,00	10
10	HPV	type 16	ī	4	B*2705	TLYAKHHL	150,00	8
11	HPV	type 16	1	4	B*5102	YAKHHLQI	242,00	8
12	HPV	type 16	î	4	B*5102	VGVVAVSTV	132,00	9
13	HPV	type 16	1	4	B*5103	VAVSTVVEV	121,00	9
14	HPV	type 16	1	4	B*5102	VAVSTVVEV	330,00	9
15	HPV	type 16	i	4	A68.1	STVVEVGER	100,00	9
16	HPV	type 16	i	4	A68.1	EVGERVLVK	720,00	9
	HPV	type 16	1	4	B14	ERVLVKDTL	180,00	9
17	HPV		î	4	B*2705	ERVLVKDTL	200,00	9
18		type 16		4	A68.1	LVKDTLYAK	120,00	9
19	HPV	type 16		4	B*5102	VGVVAVSTVV	132,00	10
20	HPV	type 16		4	B*5201	VGVVAVSTVV	198,00	10
21	HPV	type 16		4	B60	GERVLVKDTL	176,00	10
22	HPV	type 16					100,00	10
23	HPV	type 16		4	B*2705	ERVLVKDTLY	135,00	10
24.	HPV	type 16		4	A3 Cw*0401	VLVKDTLYAK	220,00	10
25	HPV	type 16		4		LYAKHHLQIF		10
26	HPV	type 16		4	A24	LYAKHHLQIF	120,00	8
27	HPV	type 16		5	B*3901	LHLDLHPV	120,00	8
28	HPV	type 16		6	B*2705	IRTGNPFS	200,00	9
29	HPV	type 16		6	B*2705	VQILGGLIY	100,00	
30	HPV	type 16		6	B62	VQILGGLIY	192,00	9
31	HPV	type 16		6	A*0201	LIYIIDWWC	153,29	9
32	HPV	type 16		6	A24	IYIIDWWCL	300,00	9
33	$^{\rm VQH}$	type 16		6	Cw*0401	IYIIDWWCL	200,00	9
34	HPV	type 16		6	B*3701	IDWWCLHFL	200,00	9
35	HPV	type 16		6	B*3901	LHFLMSFHL	180,00	9
36	HPV	type 16		6	A3	FLMSFHLTK	180,00	9
37	HPV	type 16		6	B*2705	IQCMSLMIR	100,00	9
38	HPV	type 16		6	A*0201	GLIYIIDWWC	204,93	10
39	HPV	type 16	1	6	A*0201	LIYIIDWWCL	203,73	10
40	HPV	type 16	1	6	A*0201	CLHFLMSFHL	123,90	10
41	HPV	type 16	i 1	6	A*0201	FLMSFHLTKT	291,72	10
42	HPV	type 16	5 1	6	A68.1	RTGNPFSQGR	100,00	10
43	HPV	type 16	5 1	7	B*5102	KALQAIEL	199,65	8
44	HPV	type 16		7	B*2705	LQAIELQL	200,00	8
45	HPV	type 16	1	7	B*2705	VQFDGDIC	100,00	8
46	HPV	type 16		7	B*2705	GQVDYYGL	200,00	8.
47	HPV	type 16		7	B*5102	EGIRTYFV	145,20	8
48	HPV	type 16		7	B*2705	IRTYFVQF	1000,00	8
49	HPV	type 16		7	B*2705	RTYFVQFK	150,00	8
50	HPV	type 16		7	B*2705	IROHLANH	200,00	8
51	HPV	type 16		7	B*5102	AATHTKAV	121,00	8
52	HPV	type 16		7	B*3901	THTKAVAL	135,00	8
53	HPV	type 16		7	B*5102	NPCHTTKL	146,41	8
54	HPV	type 16		7	B*2705	HRDSVDSA	200,00	В
55	HPV	type 16		7	B*2705	GRINCNSN	200,00	8
	ALE V	CJPC I	-	•			,	

- 174 -

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				•	- 174 -	
	77777	timo 16 1	7	B*2705	LRYRFKKH	300,00 8
56 57	HPV HPV	type 16 1 type 16 1	7	B*2705	YRFKKHCT	1000,00 8
58	HPV	type 16 1	7	B*2705	DQFLSQVK	100,00 8
59	HPV	type 16 1	7	B*5102	LAVSKNKAL	181,50 9
60	HPV	type 16 1	7	B*5102	QAIELQLTL	199,65 9
61	HPV	type 16 1	7	B*2705	LQLTLETIY	100,00 9 200,00 9
62	HPV	type 16 1	7 7	A24 Cw*0401	QYSNEKWTL QYSNEKWTL	200,00 9 200,00 9
63 64	HPV HPV	type 16 1 type 16 1	7	A*0201	TLQDVSLEV	285,16 9
65	HPV	type 16 1	7	B*2705	LQDVSLEVY	100,00 9
66	HPV	type 16 1	7	B*2705	VQFDGDICN	100,00 9
67	HPV	type 16 1	7	B*2705	GQVDYYGLY	100,00 9
68	HPV	type 16 1	7	A1	QVDYYGLYY	125,00 9 280,80 9
69	HPV	type 16 1 type 16 1	7 7	B*3801 B*2705	VHEGIRTYF IRTYFVQFK	280,80 9 2000,00 9
70 71	HPV HPV	type 16 1 type 16 1	7	B*2705	VQFKDDAEK	1000,00 9
72	HPV	type 16 1	7	A68.1	EVSSPEIIR	900,00 9
73	HPV	type 16 1	7	B*2705	QRPRSEPDT	200,00 9
74	HPV	type 16 1	7	B*5102	NPCHTTKLL	146,41 9
75	HPV	type 16 1	7	B*2705	GRINCHSNT	200,00 9 100,00 9
76 77	HPV	type 16 1 type 16 1	7 7	A68.1 B62	NTLKCLRYR TLKCLRYRF	120,00 9
78	HPV HPV	type 16 1 type 16 1	7	B*2705	LRYRFKKHC	300,00 9
79	HPV	type 16 1	7	B14	YRFKKHCTL	100,00 9
80	HPV	type 16 1	7	B*2702	YRFKKHCTL	300,00 9
81	HPV	type 16 1	7	B*2705	YRFKKHCTL	10000,00
82	HPV	type 16 1	7 7	B*2705	SEWQRDQFL SEWQRDQFL	150,00 9 160,00 9
83 84	HPV HPV	type 16 1 type 16 1	7	в60 в*2705	QRDQFLSQV	600,00 9
85	HPV	type 16 1	7	B*5801	KTITVSTGF	180,00 9
86	HPV	type 16 1	7	B*5102	KALQAIELQL	165,00 10
87	HPV	type 16 1	7	B*2705	LQAIELQLTL	200,00 10
88	HPV	type 16 1	7	B*2705	SQYSNEKWTL	1000,00 10 200,00 10
89 90	HPV	type 16 1 type 16 1	7 7	B*2705 B*2705	LQDVSLEVYL VOFDGDICNT	100,00 10
91	HPV HPV	type 16 1	7	Cw*0401	QFDGDICNTM	150,00 10
92	HPV	type 16 1	7	A*0201	YICEEASVTV	180,37 10
93	HPV	type 16 1	7	B60	VEGQVDYYGL	320,00 10
94	HPV	type 16 1	7 7	B*2705 B62	GONDAAGPAA	100,00 10 116,16 10
95 96	HPV HPV	type 16 1 type 16 1	7	B*5102	YGLYYVHEGI	580,80 10
97	HPV	type 16 1	7	A68.1	FVQFKDDAEK	180,00 10
98	HPV	type 16 1	7	B*2702	VQFKDDAEKY	100,00 10
99	HPV	type 16 1	7	B*2705	VQFKDDAEKY	500,00 10 110,00 10
100 101	HPV HPV	type 16 1 type 16 1	7 7	B*5102 B*5103	DAEKYSKNKV DAEKYSKNKV	110,00 10 121,00 10
102	HPV	type 16 1	7	B*2705	IRQHLANHPA	200,00 10
103	HPV	type 16 1	7	B*5102	HPAATHTKAV	242,00 10
104	HPV	type 16 1	7	B*5102	LGTEETQTTI	117,13 10
105	HPV	type 16 1	7 7	A68.1 A68.1	ETQTTIQRPR DTGNPCHTTK	150,00 10 180,00 10
106 107	HPV HPV	type 16 1 type 16 1	7	B*2705	HRDSVDSAPI	600,00 10
108	HPV	type 16 1	7	B*2705	GRINCNSNTT	200,00 10
109	HPV	type 16 1	7	B*3901	VHLKGDANTL	180,00 10
110	HPV	type 16 1	7	B*5801	NTLKCLRYRF	145,20 10 100,00 10
111 112	HPV HPV	type 16 1 type 16 1	7 7	B*2702 B*2705	LRYRFKKHCT LRYRFKKHCT	100,00 10 1000,00 10
113	HPV	type 16 1	7	Cw*0401	RYRFKKHCTL	200,00 10
114	HPV	. type 16 1	7		RYRFKKHCTL	400,00 10
115	HPV	type 16 1	7	B*2702	YRFKKHCTLY	1000,00 10
116	HPV	type 16 1	7 7	B*2705 B*2705	QRDQFLSQVK	5000,00 10 2000,00 10
117 118	HPV HPV	type 16 1 type 16 1	8	B*2705	WRAFCFAL	2000,00 8
119	HPV	type 16 1	8	B*5102	CAFVCLPI	1000,00 8
120	HPV	type 16 1	8	B*5102	AAFVCVYI	1000,00 8
121	VPV	type 16 1	8	B*2705	WRAFCFALC	200,00 9
122	HPV	type 16 1	8	Cw*0401		220,00 9 200,00 9
123 124	HPV	type 16 1 type 16 1	8 8	Cw*0301 B*5102	FALCAFVCL FALCAFVCL	200,00 9 300,00 9
125	HPV HPV	type 16 1	8	B*5103	SAAFVCVYI	121,00 9
126	HPV	type 16 1	8	B*5102	SAAFVCVYI	242,00 9
127	HPV	type 16 1	8	A24	VYIHIINNI	126,00 9
128	HPV	type 16 1	8	Cw*0401		200,00 10
129	HPV	type 16 1	8 8	A24 B*2705	HYWRAFCFAL WRAFCFALCA	200,00 10 200,00 10
130 131	HPV HPV	type 16 1 type 16 1	8	Cw*0401		220,00 10
132	HPV	type 16 1	8	B*5102	LPINTSAAFV	660,00 10
133	HPV	type 16 1	8	B*5102	AAFVCVYIHI	1100,00 10
134	HPV	type 16 1	8	B*5103	AAFVCVYIHI	145,20 10
135	HPV	type 16 1	9 10	B*2705 A*0201	TOTFCKTHK CLLSQYLRL	200,00 9 118,56 9
136 137	HPV HPV	type 16 1 type 16 1	10	Cw*0301		100,00 9
138	HPV	type 16 1	10	Cw*0301		100,00 10
139	HPV	type 16 1	11	B*5102	TPISLVFL	300,00 B
140	HPV	type 16 1	11	B*5102	TPHFIIQI	484,00 B
$\frac{141}{142}$	HPV	type 16 1 type 16 1	11 11	B*2705 A*0201	IQIHSGWF FLTPHFIIQI	100,00 B 419,44 10
143	HPV HPV	type 16 1 type 16 1	12	B*5102	LALVLWTL	150,00 8
144	HPV	type 16 1	12	B*2705	YRLTKVKF	300,00 8
145	HPV	type 16 1	12	B*3901	FHWIFVHL	270,00 8

					1/5	
						121,00 8
146	HPV	type 16 1	12	B*5102	FANIQIIL	•
147	HPV	type 16 1	12	B*5102	MATAYFFI	200,00 8
148	HPV	type 16 1	12	B*2705	YQTIYTLK	200,00 8
149	HPV	type 16 1	12	B*5102	KALGLLQI	726,00 8
			12	B*5102	LALVLWTLL	150,00 9
150	HPV	<b></b>			TLLHYRLTK	180,00 9
151	HPV	type 16 1	12	A3		•
152	HPV	type 16 1	12	A*0201	LLHYRLTKV	•
153	HPV	type 16 1	12	A24	HYRLTKVKF	110,00 9
154	HPV	type 16 1	12	Cw*0401	HYRLTKVKF	132,00 9
155	HPV	type 16 1	12	Cw*0401	KFHWIFVHL	330,00 9
			12	Cw*0401	LFANIQIIL	200,00 9
156	HPV			B*2705	CONHMATAY	100,00 9
157	HPV	type 16 1	12			177,27 9
158	HPV	type 16 1	12	A*0201	FIYEGNKCL	
159	HPV	type 16 1	12	A*0205	FIYEGNKCL	189,00 9
160	HPV	type 16 1	12	A24	IYEGNKCLL	300,00 9
161	HPV	type 16 1	12	Cw*0401	IYEGNKCLL	200,00 9
162	HPV	type 16 1	12	A24	IYLIGLVLL	300,00 9
			12	Cw*0401	IYLIGLVLL	400,00 9
163	HPV		12	A*0201	YLIGLVLLV	735,86 9
164	HPV	type 16 1				107,81 9
165	HPV	type 16 1	12	A*0201	VLLVKMYQT	
166	HPV	type 16 1	12	A*0201	KMYQTIYTL	397,44 9
167	HPV	type 16 1	12	A*0205	KMYQTIYTL	126,00 9
168	HPV	type 16 1	12	B*2705	KMYQTIYTL	750,00 9
169	HPV	type 16 1	12	A24	IYTLKALGL	200,00 9
			12	Cw*0401	IYTLKALGL	200,00 9
170	HPV					400,00 10
171	HPV	type 16 1	12	A68.1	LVLWTLLHYR	•
172	HPV	type 16 1	12	A*0201	VLWTLLHYRL	
173	HPV	type 16 1	12	B*2705	VLWTLLHYRL	150,00 10
174	HPV	type 16 1	12	A*0201	$\mathtt{TLLHYRLTKV}$	591,89 10
175	HPV	type 16 1	12	B*2702	YRLTKVKFHW	100,00 10
		type 16 1	12	B*2705	YRLTKVKFHW	200,00 10
176	HPV			A*0201	RLTKVKFHWI	109,02 10
177	HPV	type 16 1	12			300,00 10
178	HPV	type 16 1	12	Cw*0401	KFHWIFVHLF	· · · · · · · · · · · · · · · · · ·
179	HPV	type 16 1	12	B*2705	HLFANIQIIL	150,00 10
180	HPV	type 16 1	12	B*2705	CQNHMATAYF	100,00 10
181	HPV	type 16 1	12	A3	HMATAYFFIY	108,00 10
182	HPV	type 16 1	12	Cw*0401	FFIYEGNKCL	200,00 10
			12	A*0201	FIYEGNKCLL	177,27 10
183	HPV			A*0205	FIYEGNKCLL	189,00 10
184	HPV	type 16 1	12			745,36 10
185	HPV	type 16 1	12	A*0201	CPPDIATICF	
186	HPV	type 16 1	12	A*0205	CLLDIYLIGL	151,20 10
187	HPV	type 16 1	12	A3	YLIGLVLLVK	202,50 10
188	HPV	type 16 1	12	A3	KMYQTIYTLK	450,00 10
	HPV	type 16 1	12	B*2705	KMYQTIYTLK	750,00 10
189			12	Cw*0401	IYTLKALGLL	440,00 10
190	HPV	type 16 1				200,00 10
191	HPV	type 16 1	12	A24	IYTLKALGLL	
192	HPV	type 16 1	13	B*2705	HRATIMAF	1000,00 8
193	HPV	type 16 1	13	B*5102	RATIMAFV	100,00 8
194	HPV	type 16 1	13	B*2705	${f TNYLLLL}$	100,00 8
195	HPV	type 16 1	13	B*2705	VQICHYVL	200,00 8
		type 16 1	13	B*3901	CHYVLPYL	180,00 8
196	HPV		13	B*5102	LPYLLQKL	665,50 8
197	HPV				LHIKILTL	270,00 8
198	HPV	type 16 1	13	B*3901		The state of the s
199	HPV	type 16 1	13	B*2705	GRNMIYSL	
200	HPV	type 16 1	13	B*2705	SLFFNCAK	150,00 8
201	HPV	type 16 1	13	B*5102	MPKYSINLI	220,00 9
202	HPV	type 16 1	13	B*2705	HRATIMAFV	600,00 9
203	HPV	type 16 1	13	Cw*0401	AFVGVTNYL	200,00 9
		type 16 1	13	Cw*03.01		120,00 9
204			13	A24	NYLLLLIL	360,00 9
205	HPV			Cw*0401		400,00 9
206	HPV	type 16 1	13			
207	HPV	type 16 1	13	A*0201	LLLLILHAV	•
208	HPV	type 16 1	13	B*5103	HAVQICHYV	110,00 9
209	HPV	type 16 1	13	B*5102	HAVQICHYV	363,00 9
210	HPV	type 16 1	13	B*3901	CHYVLPYLL	180,00 9
211	HPV	type 16 1	13	A68.1	YVLPYLLQK	360,00 9
212	HPV	type 16 1	13	A*0201	KLHIKILTL	171,97 9
			13	B*2705	LRSTYDMGR	1000,00 9
213	HPV			B*2702	GRNMIYSLF	200,00 9
214	HPV	type 16 1	13			1000,00 9
215	HPV	type 16 1	13	B*2705	GRNMIYSLF	
216	HPV	type 16 1	13	B*5102	IGYNEHRATI	484,00 10
217	HPV	type 16 1	13	B*5103	IGYNEHRATI	132,00 10
218	HPV	type 16 1	13	Cw*0401	GYNEHRATIM	132,00 10
219	HPV	type 16 1	13	B*5102	RATIMAFVGV	100,00 10
			13	B*5103	RATIMAFVGV	121,00 10
220	HPV			B*5102	MAFVGVTNYL	332,75 10
221	HPV	type 16 1	13			
222	HPV	type 16 1	13	Cw*0401		•
223	$^{\mathrm{HPV}}$	type 16 1	13	B*2705	TNYLLLLLL	100,00 10
224	HPV	type 16 1	13	A*0201	YLLLLLILHA	194,48 10
225	HPV	type 16 1	13	A*0201	LLLLLILHAV	1006,21 10
226		type 16 1	13	B*5102	HAVQICHYVL	165,00 10
	HPV			B*2705	VQICHYVLPY	100,00 10
227	HPV	type 16 1	13			
228	HPV	type 16 1	13	A*0205	YVLPYLLQKL	
229	HPV	type 16 1	13	Cw*030		120,00 10
230	HPV	type 16 1	13	B*5102	LPYLLQKLHI	2420,00 10
231	HPV	type 16 1	13	B*5103	<b>LPYLLQKLHI</b>	159,72 10
232	HPV	type 16 1	13	A*0201	APPOKPHIKI	177,57 10
233			13	B*2705	LRSTYDMGRN	200,00 10
	HPV			B*2702	GRNMIYSLFF	200,00 10
234	HPV	type 16 1	13			1000,00 10
235	HPV	type 16 1	13	в*2705	GRNMIYSLFF	1000,00 10

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	*****	h	14	B*2705	CMYVELVL	250,00 8
236	HPV	type 16 1 type 16 1	14	Cw*0301	CKYCMYVEL	100,00 9
237	HPV	type 16 1	14	B*2705	CMYVELVLF	125,00 9
238 239	HPV HPV	type 16 1	14	A*0201	VLFVVYMFV	3609,23 9
240	HPV	type 16 1	14	Cw*0401	VYMFVCACM	120,00 9
241	HPV	type 16 1	14	Cw*0401	MFVCACMCL	220,00 9
242	HPV	type 16 1	14	Cw*0401	KYCMYVELVL	200,00 10
243	HPV	type 16 1	14	A24	KYCMYVELVL	560,00 10
244	HPV	type 16 1	14	A*0201	CMYVELVLFV	2033,39 10
245	HPV	type 16 1	14	A*0201	LVLFVVYMFV	315,81 10
246	HPV	type 16 1	14	A*0201	VLFVVYMFVC	170,91 10
247	HPV	type 16 1	14	A*0201	YMFVCACMCL	262,59 10
248	HPV	type 16 1	14	B*2705	YMFVCACMCL	250,00 10
249	HPV	type 16 1	15	A*0201	FLFYIYYIL	223,61 9
250	HPV	type 16 1	15	A*0205	FLFYIYYIL	126,00 9
251	HPV	type 16 1	15	B*2705	FLFYIYYIL	150,00 9
252	HPV	type 16 1	15	Cw*0301	LFLFYIYYIL	100,00 10
253	HPV	type 16 1	15	Cw*0401	LFLFYIYYIL	200,00 10 200,00 8
254	HPV	type 16 1	16	B*2705	COPFHCFL	200,00 8 1684,90 9
255	HPV	type 16 1	17	A*0201	LLGTYFWLV	400,00 9
256	HPV	type 16 1	17	Cw*0401 A*0201	YFWLVLTNL	459,40 9
257	HPV	type 16 1	17 17	Cw*0401	VLTNLIAYL TYFWLVLTNL	400,00 10
258	HPV	type 16 1 type 16 1	17	A24	TYFWLVLTNL	280,00 10
259	HPV	type 16 1 type 16 1	17	A*0201	LVLTNLIAYL	148,73 10
260	HPV	type 16 1	17	A*0205	LVLTNLIAYL	142,80 10
261	HPV HPV	type 16 1	1	B*2705	HRAANNYT	200,00 8
262 263	HPV	type 16 1	3	A*0201	VLLQIIKNT	107,81 9
264	HPV	type 16 1	4	B*3901	MHGDTPTL	180,00 8
265	HPV	type 16 1	4	B*3901	PHEAMPDF	405,00 8
266	HPV	type 16 1	4	в*2705	LQPETTDL	200,00 8
267	HPV	type 16 1	4	B*2705	LRLCVQST	200,00 8
268	HPV	type 16 1	4	B*3901	THVDIRTL	180,00 8
269	HPV	type 16 1	4	B*2705	IRTLEDLL	2000,00 8
270	HPV	type 16 1	4	B*5102	TPTLHEYML	110,00 9
271	HPV	type 16 1	4	A*0201	TLHEYMLDL	201,45 9
272	HPV	type 16 1	4	A*0201	YMLDLQPET	375,57 9
273	HPV	type 16 1	4	B*2705	LQPETTDLY	100,00 9
274	HPV	type 16 1	4	Cw*0301	TDLYCYEQL	100,00 9 900.00 9
275	HPV	type 16 1	4	A1	QAEPDRAHY	
276	HPV	type 16 1	4	B*5102	EPDRAHYNI	220,00 9 200,00 9
277	HPV	type 16 1	4	B*2705	LRLCVQSTH VQSTHVDIR	100,00 9
278	HPV	type 16 1	<u>4</u> 4	B*2705 B*2705	IRTLEDLLM	600,00 9
279	HPV	type 16 1 type 16 1	4	B60	LEDLLMGTL	176,00 9
280 281	HPV HPV	type 16 1 type 16 1	4	A68.1	IVCPICSQK	180,00 9
282	HPV	type 16 1	4	A*0201	YMLDLQPETT	184,03 10
283	HPV	type 16 1	4	B40	DEIDGPAGQA	120,00 10
284	HPV	type 16 1	4	B*2705	GQAEPDRAHY	100,00 10
285	HPV	type 16 1	4	B*5102	EPDRAHYNIV	110,00 10
286	HPV	type 16 1	4	B*5201	EPDRAHYNIV	100,00 10
287	HPV	type 16 1	4	B*2705	DRAHYNIVTF	100,00 10
288	HPV	type 16 1	4	Cw*0401		200,00 10
289	HPV	type 16 1	4	B*2705	LRLCVQSTHV	600,00 10
290	HPV	type 16 1	4	A68.1	CVQSTHVDIR	200,00 10
291	$V_{AH}$	type 16 1	4	B*3701	VDIRTLEDLL	200,00 10 100,00 8
292	HPV	type 16 1	5	B*2705	AQEAKQHR	100,00 8 2000,00 8
293	HPV	type 16 1	5	B*2705 B*2705	HRDAVQVL KRKYLVVH	600,00 8
294	HPV	type 16 1 type 16 1	5 5	B*5102	NGWFYVEAV	220,00 9
295	HPV		5	B*5201	GWFYVEAVV	100,00 9
296	HPV	CAPC TO T	5	A68.1	YVEAVVEKK	120,00 9
297 298	HPV HPV	type 16 1 type 16 1	5	B60	AETETAHAL	160,00 9
299	HPV	type 16 1	5	A3	ALFTAQEAK	100,00 9
300	HPV	type 16 1	5	B*2705	ALFTAQEAK	150,00 9
301	HPV	type 16 1	5	B*5103	EAKQHRDAV	110,00 9
302	HPV	type 16 1	5	B*2705	KQHRDAVQV	180,00 9
303	HPV	type 16 1	5	B*2705	HRDAVQVLK	2000,00 9
304	HPV	type 16 1	5	B*2702	KRKYLVVHL	180,00 9
305	HPV	type 16 1	5	B*2705	KRKYLVVHL	6000,00 9
306	HPV	type 16 1	5	A24	KYLVVHLVI	210,00 9
307	HPV	type 16 1	5	B*5102	NGWFYVEAVV	220,00 10 500,00 10
308	HPV	type 16 1	5	B*5201	NGWFYVEAVV	500,00 10 100,00 10
309	HPV	type 16 1	5	B*5201	TGEDLVDFIV  1 DFIVNDNDYL	200,00 10
310	HPV	type 16 1	5	Cw*040 A68.1	FTAOEAKOHR	150,00 10
311	HPV	type 16 1	5 5	B*2705	KQHRDAVQVL	600,00 10
312	HPV	type 16 1	5 5	B*2705	HRDAVQVLKR	1000,00 10
313	HPV	type 16 1 type 16 1	5	B*2705		1800,00 10
314 315	HPV	type 16 1 type 16 1	5	Cw*040		440,00 10
315 316	HPV HPV	type 16 1	5	A24	KYLVVHLVIL	600,00 10
317	HPV	type 16 1	5	A*0201		735,86 10
318	HPV	type 16 1	6	B*5102	MAILKWKL	181,50 8
319	HPV	type 16 1	6	B62	ILKWKLSRCY	312,00 10
320	HPV	type 16 1	7	B*2705		600,00 8
321	HPV	type 16 1	7	B*2705		150,00 8
322	HPV	type 16 1	7	B*5102		242,00 8
323	HPV	type 16 1	7	B*2705		200,00 9
324	HPV	type 16 1	7	B*5102		132,00 9
325	HPV	type 16 1	7	B*5103	VAVSTVVEV	121,00 9

326	HPV	type 16 1	7	B*5102	VAVSTVVEV	330,00 9
327	HPV	type 16 1	7	A68.1	STVVEVGER	100,00 9
			7	A68.1		720,00 9
328	HPV	type 16 1			EVGERVLVK	•
329	HPV	type 16 1	7	B14	ERVLVKDTL	•
330	HPV	type 16 1	7	B*2705	ERVLVKDTL	200,00 9
331	HPV	type 16 1	7	A68.1	LVKDTLYAK	120,00 9
332	HPV	type 16 1	7	B14	MRLKHHVVSI	120,00 10
		-42	7	B*2705	MRLKHHVVSI	600,00 10
333	HPV					132,00 10
334	HPV	type 16 1	7	B*5102	VGVVAVSTVV	
335	HPV	type 16 1	7	B*5201	VGVVAVSTVV	198,00 10
336	HPV	type 16 1	7	B60	GERVLVKDTL	176,00 10
337	HPV	type 16 1	7	B*2705	ERVLVKDTLY	100,00 10
		type 16 1	7	A3	VLVKDTLYAK	135,00 10
338	HPV					220,00 10
339	HPV	type 16 1	7	Cw*0401	LYAKHHLQIF	
340	HPV	type 16 1	7	A24	LYAKHHLQIF	120,00 10
341	HPV	type 16 1	8	B*2705	RQNGYKDK	600,00 8
342	HPV	type 16 1	8	B*2705	KQYYNIVL	3000,00 8
	HPV	type 16 1	8	B*2705	HRWYNGPT	1000,00 8
343				B*2705	TRONGYKDK	600,00 9
344	HPV	type 16 1	8		-	•
345	HPV	type 16 1	8	B*2705	KQYYNIVLM	
346	HPV	type 16 1	8	B*2702	HRWYNGPTI	300,00 9
347	HPV	type 16 1	8	B*2705	HRWYNGPTI	3000,00 9
348	HPV	type 16 1	8	B*2705	KQYYNIVLMI	900,00 10
			8	B*5201	KQYYNIVLMI	300,00 10
349	HPV					
350	HPV	type 16 1	8	B*5201	<b>ÖAANIAFWIA</b>	•
351	HPV	type 16 1	8	B*2702	HRWYNGPTIM	100,00 10
352	HPV	type 16 1	8	B*2705	HRWYNGPTIM	3000,00 10
353	HPV	type 16 1	10	B60	MEVIGSKLL	320,00 9
		type 16 1	11	B*2705	VQLTQVNHY	100,00 9
354	HPV					117,49 9
355	HPV	type 16 1	11	A*0201	QLTQVNHYL	
356	HPV	type 16 1	11	B*2705	VQLTQVNHYL	200,00 10
357	HPV	type 16 1	13	B*2705	IRTGNPFS	200,00 8
358	HPV	type 16 1	13	B*2705	VOILGGLIY	100,00 9
359	HPV	type 16 1	13	B62	VQILGGLIY	192,00 9
				A*0201		153,29 9
360	HPV	type 16 1	13		LIYIIDWWC	·
361	HPV	type 16 1	13	A24	IYIIDWWCL	300,00 9
362	HPV	type 16 1	13	Cw*0401	IXIIDWWCL	200,00 9
363	HPV	type 16 1	13	B*3701	IDWWCLHFL	200,00 9
364	HPV	type 16 1	13	B*3901	LHFLMSFHL	180,00 9
			13	A3	FLMSFHLTK	180,00 9
365	HPV					100,00 9
366	HPV	type 16 1	13	B*2705	IQCMSLMIR	· · · ·
367	HPV	type 16 1	13	A*0201	GLIYIIDWWC	204,93 10
368	HPV	type 16 1	13	A*0201	PIAIIDAMCP	203,73 10
369	HPV	type 16 1	13	A*0201	CLHFLMSFHL	123,90 10
	HPV	type 16 1	13	A*0201	FLMSFHLTKT	291,72 10
370			13	A68.1	RTGNPFSQGR	100,00 10
371	HPV	type 16 1				
372	HPV	type 16 1	14	B*2705	LRDHIDYW	200,00 8
373	HPV	type 16 1	14	B*2705	MRLECAIY	1000,00 8
374	HPV	type 16 1	14	B*5102	KALQAIEL	199,65 8
375	HPV	type 16 1	14	B*2705	LQAIELQL	200,00 8
			14	B*2705	VQFDGDIC	100,00 8
376	HPV					200,00 8
377	HPV	type 16 1	14	B*2705	GQVDYYGL	•
378	HPV	type 16 1	14	B*5102	EGIRTYFV	145,20 8
379	HPV	type 16 1	14	B*2705	IRTYFVQF	1000,00 8
380	HPV	type 16 1	14	B*2705	RTYFVQFK	150,00 8
381	HPV	type 16 1	14	B*2705	IRQHLANH	200,00 8
			14	B*5102	AATHTKAV	121,00 8
382	HPV					•
383	HPV	type 16 1	14	B*3901	THTKAVAL	•
384	HPV	type.16_1	14	B*51.02	NPCHTTKL	146,41 8
385	HPV	type 16 1	14	B*2705	HRDSVDSA	200,00 8
386	HPV	type 16 1	14	B*2705	GRINCNSN	200,00 8
387	HPV	type 16 1	14	B*2705	LRYRFKKH	300,00 8
			14	B*2705	YRFKKHCT	1000,00 8
388	HPV		14	B*2705	DQFLSQVK	100,00 8
389	HPV	type 16 1				2000,00 9
390	HPV	type 16 1	14	B*2705	QRLNVCQDK	
391	HPV	type 16 1	14	B*2705	CODKILTHY	100,00 9
392	HPV	type 16 1	14	A24	HYENDSTDL	300,00 9
393	HPV	type 16 1	14	Cw*0401	HYENDSTDL	200,00 9
394	HPV	type 16 1	14	B*2705	LRDHIDYWK	2000,00 9
				B*3901	DHIDYWKHM	120,00 9
395	HPV	type 16 1	14			
396	HPV	type 16 1	14	B*2702	MRLECAIYY	· ·
397	HPV	type 16 1	14	B*2705	MRLECAIYY	1000,00 9
398	HPV	type 16 1	14	A24	YYKAREMGF	100,00 9
399	HPV	type 16 1	14	Cw*0401		110,00 9
400	HPV	type 16 1	14	B*2705	AREMGFKHI	180,00 9
				A68.1		120,00 9
401	HPV	type 16 1	14		VVPTLAVSK	
402	HPV	type 16 1	14	B*5102	LAVSKNKAL	181,50 9
403	HPV	type 16 1	14	B*5102	QAIELQLTL	199,65 9
404	HPV	type 16 1	14	B*2705	LQLTLETIY	100,00 9
405	HPV	type 16 1	14	A24	QYSNEKWTL	200,00 9
						200,00 9
406	HPV	type 16 1	14	Cw*0401		
407	HPV	type 16 1	14	A*0201	TLQDVSLEV	285,16 9
408	HPV	type 16 1	14	B*2705	LQDVSLEVY	100,00 9
409	HPV	type 16 1	14	B*2705	VQFDGDICN	100,00 9
410	HPV	type 16 1	14	B*2705	GQVDYYGLY	100,00 9
						125,00 9
411	HPV	type 16 1	14	A1	QVDYYGLYY	
412	HPV	type 16 1	14	B*3801	VHEGIRTYF	280,80 9
413	HPV	type 16 1	14	B*2705	IRTYFVQFK	2000,00 9
414	HPV	type 16 1	14	B*2705	VQFKDDAEK	1000,00 9
			14	A68.1	EVSSPEIIR	900,00 9
415	HPV	type 16 1	7.4	700.T		200,00

- 178 -

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44.0	******	timo 16 1	14	B*2705	ORPRSEPDT	200,00 9
416	HPV	type 16 1 type 16 1	14	B*5102	NPCHTTKLL	146,41 9
417	HPV		14	B*2705	GRINCHSNT	200,00 9
418	HPV	type 16 1 type 16 1	14	A68.1	NTLKCLRYR	100,00 9
419	HPV HPV	type 16 1	14	B62	TLKCLRYRF	120,00 9
420 421	HPV	type 16 1	14	B*2705	LRYRFKKHC	300,00 9
422	HPV	type 16 1	14	B14	YRFKKHCTL	100,00 9
423	HPV	type 16 1	14	B*2702	YRFKKHCTL	300,00 9
424	HPV	type 16 1	14	B*2705	YRFKKHCTL	10000,00
425	HPV	type 16 1	14	B*2705	SEWORDQFL	150,00 9
426	HPV	type 16 1	14	B60	SEWQRDQFL	160,00 9
427	HPV	type 16 1	14	B*2705	QRDQFLSQV	600,00 9
428	HPV	type 16 1	14	B*5801	KTITVSTGF	180,00 9
429	HPV	type 16 1	14	B*2705	CQRLNVCQDK	200,00 10
430	HPV	type 16 1	14	B*2705	QRLNVCQDKI	600,00 10
431	HPV	type 16 1	14	B*3901	THYENDSTDL	360,00 10
432	HPV	type 16 1	14	A1	STDLRDHIDY	312,50 10
433	HPV	type 16 1	14	B*2705	LRDHIDYWKH	200,00 10
434	HPV	type 16 1	14	B*2705	MRLECAIYYK	2000,00 10
435	HPV	type 16 1	14	Cw*0401	IYYKAREMGF	110,00 10
436	HPV	type 16 1	14	A24	IYYKAREMGF	100,00 10
437	HPV	type 16 1	14	B*5102	KAREMGFKHI	133,10 10
438	HPV	type 16 1	1 <b>4</b>	B*5103	KAREMGFKHI	121,00 10
439	HPV	type 16 1	14	B*2705	AREMGFKHIN	200,00 10
440	HPV	type 16 1	14	B*5102	MGFKHINHQV	242,00 10
441	HPV	type 16 1	14	A68.1	QVVPTLAVSK	360,00 10
442	HPV	type 16 1	14	B*5102	KALQAIELQL	165,00 10
443	HPV	type 16 1	14	B*2705	LQAIELQLTL	200,00 10
444	HPV	type 16 1	14	B*2705	SQYSNEKWTL	1000,00 10
445	HPV	type 16 1	14	B*2705	LQDVSLEVYL	200,00 10
446	HPV	type 16 1	14	B*2705	VQFDGDICNT	100,00 10
447	HPV	type 16 1	1.4	Cw*0401		150,00 10 180,37 10
448	HPV	type 16 1	14	A*0201	YICEEASVTV	
449	HPV	type 16 1	14	B60	VEGQVDYYGL	320,00 10 100,00 10
450	HPV	type 16 1	14	B*2705	GOVDYYGLYY	100,00 10 116,16 10
451	HPV	type 16 1	14	B62	GQVDYYGLYY	·
452	HPV	type 16 1	14	B*5102	YGLYYVHEGI	
453	HPV	type 16 1	14	A68.1	FVQFKDDAEK	180,00 10 100,00 10
454	HPV	type 16 1	14	B*2702	VQFKDDAEKY	500,00 10
455	HPV	type 16 1	14	B*2705	VQFKDDAEKY DAEKYSKNKV	110,00 10
456	HPV	type 16 1	14	B*5102		121,00 10
457	HPV	type 16 1	14	B*5103 B*2705	DAEKYSKNKV IRQHLANHPA	200,00 10
458	HPV	type 16 1	14 14	B*5102	HPAATHTKAV	242,00 10
459	HPV	type 16 1 type 16 1	14	B*5102	LGTEETQTTI	117,13 10
460	HPV	type 16 1 type 16 1	14	A68.1	ETQTTIQRPR	150,00 10
461	HPV	type 16 1	14	A68.1	DTGNPCHTTK	180,00 10
462	HPV	type 16 1	14	B*2705	HRDSVDSAPI	600,00 10
463 464	HPV HPV	type 16 1	14	B*2705	GRINCNSNTT	200,00 10
465	HPV	type 16 1	14	B*3901	VHLKGDANTL	180,00 10
466	HPV	type 16 1	14	B*5801	NTLKCLRYRF	145,20 10
467	HPV	type 16 1	14	B*2702	LRYRFKKHCT	100,00 10
468	HPV	type 16 1	14	B*2705	LRYRFKKHCT	1000,00 10
469	HPV	type 16 1	14	Cw*0401		200,00 10
470	HPV	type 16 1	14	A24	RYRFKKHCTL	400,00 10
471	HPV	type 16 1	14	B*2702	YRFKKHCTLY	1000,00 10
472	HPV	type 16 1	14	B*2705	YRFKKHCTLY	5000,00 10
473	HPV	type 16 1	14	B*2705	QRDQFLSQVK	2000,00 10
474	HPV			- B*2705	MQEHPDYL	
475	HPV	type 16 1	16	B*3901	EHPDYLQL	270,00 8
476	HPV	type 16 1	16	B*2705	LQLDIPIF	100,00 8
477	HPV	type 16 1	16	A*0201	NMLHAQTYI	153,33 9
478	HPV	type 16 1	16	A*0201	IMQEHPDYL	289,81 9
479	HPV	type 16 1	16	В60	QEHPDYLQL	352,00 9
480	HPV	type 16 1	16	B*5102	HPDYLQLDI	220,00 9
481	HPV	type 16 1	16	A*0201	LQLDIPIFL	307,21 9
482	HPV	type 16 1	16	B*2705	LQLDIPIFL	200,00 9
483	HPV	type 16 1	16	A*0201	QLDIPIFLL	113,99 9 160,00 9
484	HPV	type 16 1	16	Cw*040		•
485	HPV	type 16 1	16	B*5102	IPIFLLKNL	330,00 9 119,60 9
486	HPV	type 16 1	16	A*0201	FLLKNLTIT	200,00 10
487	HPV	type 16 1	16	B*2705	MQEHPDYLQL	200,00 10
488	HPV	type 16 1	16	Cw*040	1 DYLQLDIPIF DYLQLDIPIF	150,00 10
489	HPV	type 16 1	16 16	A24	YLOLDIPIFL	540,47 10
490	HPV	type 16 1	16 16	A*0201 A*0201	LQLDIPIFLL	745,13 10
491	HPV	type 16 1	16 16	A*0201 A*0205	LOLDIPIFLL	205,63 10
492	HPV	type 16 1	16 16	B*2705	LQLDIFIFLL	200,00 10
493	HPV	type 16 1	16 16	A3	QLDIPIFLLK	180,00 10
494	HPV	type 16 1 type 16 1	16 16	B62	LLKNLTITKY	144,00 10
495	HPV		17	A*0201		106,87 9
496 497	HPV	type 16 1 type 16 1	17	B*5201		150,00 9
497	HPV	type 16 1 type 16 1	17	A68.1	NVYLWITNK	120,00 9
499	HPV	type 16 1	17	A*0201		118,24 10
500	HPV	type 16 1	17	A*0201		360,92 10
501	HPV	type 16 1	17	B*2705		100,00 10
502	HPV	type 16 1	17	A*0201		223,20 10
503	HPV	type 16 1	17	A*0201		189,68 10
504	HPV	type 16 1	18	B*5102		150,00 8
505	HPV	type 16 1	18	B*2705		300,00 8

					- III	
F0.6	TYPY?	huma 16 1	10	B*3001	בטשר ביישד.	270,00 8
506	HPV	type 16 1	18	B*3901 B*5102	FHWIFVHL	121,00 8
507	HPV	type 16 1	18 18	B*5102	FANIQIIL MATAYFFI	200,00 8
508	HPV	type 16 1		B*2705	YQTIYTLK	200,00 8
509	HPV	type 16 1	18			726,00 8
510	HPV	type 16 1	18	B*5102	KALGLLQI	310,36 9
511	HPV	type 16 1	18	A*0201 A*0201	VIWFILALV	220,61 9
512	HPV	type 16 1	18		FILALVLWT	626,45 9
513	HPV	type 16 1	18	A*0201	ILALVLWTL	150,00 9
514	HPV	type 16 1	18	B*5102	LALVLWTLL	180,00 9
515	HPV	type 16 1	18	A3	TLLHYRLTK	271,95 9
516	HPV	type 16 1	18	A*0201	LLHYRLTKV	110,00 9
517	HPV	type 16 1	18	A24	HYRLTKVKF HYRLTKVKF	132,00 9
518	HPV	type 16 1	18	Cw*0401		330,00 9
519	HPV	type 16 1	18	Cw*0401	KFHWIFVHL	200,00 9
520	HPV	type 16 1	18	Cw*0401 B*2705	LFANIQIIL CONHMATAY	100,00 9
521	HPV	type 16 1	18	A*0201	FIYEGNKCL	177,27 9
522	HPV	type 16 1	18	A*0201	FIYEGNKCL	189,00 9
523	HPV	type 16 1	18	A24	IYEGNKCLL	300,00 9
524	HPV	type 16 1	18	Cw*0401	IYEGNKCLL	200,00 9
525	HPV	type 16 1	18	A24	IYLIGLVLL	300,00 9
526	HPV	type 16 1	18	Cw*0401		400,00 9
527	HPV	type 16 1	18	A*0201	YLIGLVLL	735,86 9
528	HPV	type 16 1	18	A*0201		107,81 9
529	HPV	type 16 1	18	A*0201	VLLVKMYQT KMYOTTVTI	397,44 9
530	HPV	type 16 1	18	A*0201	KMYQTIYTL KMYQTIYTL	126,00 9
531	HPV	type 16 1	18	B*2705	KMYQTIYTL	750,00 9
532	HPV	type 16 1	18		IYTLKALGL	200,00 9
533	HPV	type 16 1	18	A24	IYTLKALGL	200,00 9
534	HPV	type 16 1	18	Cw*0401 A*0201	FILALVLWTL	862,39 10
535	HPV	type 16 1	18		FILALVLWTL	151,20 10
536	HPV	type 16 1	18	A*0205 A68.1		400,00 10
537	HPV	type 16 1	18	A*0201	LVLWTLLHYR VLWTLLHYRL	301,42 10
538	HPV	type 16 1	18			150,00 10
539	HPV	type 16 1	18	B*2705 A*0201	VLWTLLHYRL TLLHYRLTKV	591,89 10
540	HPV	type 16 1	18	B*2702	YRLTKVKFHW	100,00 10
541	HPV	type 16 1	18	B*2702	YRLTKVKFHW	200,00 10
542	HPV	type 16 1	18	A*0201	RLTKVKFHWI	109,02 10
543	HPV	type 16 1	18			300,00 10
544	HPV	type 16 1	18	Cw*0401 B*2705	KFHWIFVHLF HLFANIQIIL	150,00 10
545	HPV	type 16 1	18	B*2705	CONHMATAYF	100,00 10
546	HPV	type 16 1	18			108,00 10
547	HPV	type 16 1	18	A3 Cw*0401	HMATAYFFIY	200,00 10
548	HPV	type 16 1	18			177,27 10
549	HPV	type 16 1	18	A*0201 A*0205	FIYEGNKCLL FIYEGNKCLL	189,00 10
550	HPV	type 16 1	18	A*0203	CLLDIYLIGL	745,36 10
551	HPV	type 16 1	18 18	A*0201	CLLDIYLIGL	151,20 10
552	HPV	type 16 1		_	YLIGLVLLVK	202,50 10
553	HPV	type 16 1	18	A3 A3	KMYQTIYTLK	450,00 10
554	HPV	type 16 1	18	B*2705	KMYQTIYTLK	750,00 10
555	HPV	type 16 1	18	Cw*0401		440,00 10
556	HPV	type 16 1	18 18	A24	IYTLKALGLL	200,00 10
557	HPV	type 16 1		B*2705	HRATIMAF	1000,00 8
558	HPV	type 16 1	19	B*5102	RATIMAFV	100,00 8
559	HPV	type 16 1	19 19	B*2705	TNYLLLLL	100,00 8
560	HPV	type 16 1	19	B*2705	VOICHYVL	200,00 8
561	HPV	type 16 1	19	B*3901	CHYVLPYL	180,00 8
562	HPV	type 16 1		B*5102	LPYLLQKL	665,50 8
563	HPV	type 16 1	19 19	B*3901		270,00. 8.
564	HPV	type 16 1 type 16 1	19	B*2705	GRNMIYSL	2000,00 8
565	HPV		19	B*2705	SLFFNCAK	150,00 8
566	HPV HPV	C3 PC TO T	19	B*5102	MPKYSINLI	220,00 9
567		type 16 1 type 16 1	19	B*2705	HRATIMAFV	600,00 9
568 569	HPV HPV	type 16 1	19	Cw*0401		200,00 9
570	HPV	type 16 1	19	Cw*0301		120,00 9
571	HPV	type 16 1	19	A24	NYLLLLIL	360,00 9
572	HPV	type 16 1	19	Cw*0401		400,00 9
573	HPV	type 16 1	19	A*0201	LLLLILHAV	1006,21 9
574	HPV	type 16 1	19	B*5103	HAVQICHYV	110,00 9
575	HPV	type 16 1	19	B*5102	HAVQICHYV	363,00 9
576	HPV	type 16 1	19	B*3901	CHYVLPYLL	180,00 9
577	HPV	type 16 1	19	A68.1	YVLPYLLQK	360,00 9
578	HPV	type 16 1	19	A*0201	KLHIKILTL	171,97 9
579	HPV	type 16 1	19	B*2705	LRSTYDMGR	1000,00 9
580		type 16 1	19	B*2702	GRNMIYSLF	200,00 9
581	HPV HPV	type 16 1	19	B*2705	GRNMIYSLF	1000,00 9
582	HPV	type 16 1	19	B*5102	IGYNEHRATI	484,00 10
583	HPV	type 16 1	19	B*5103	IGYNEHRATI	132,00 10
584	HPV	type 16 1	19	Cw*0401		132,00 10
585	HPV	type 16 1	19	B*5102	RATIMAFVGV	100,00 10
586			19	B*5103	RATIMAFVGV	121,00 10
586	HPV	type 16 1 type 16 1	19	B*5103	MAFVGVTNYL	332,75 10
588	HPV	type 16 1	19	Cw*0401		240,00 10
	HPV		19	B*2705	TNYLLLLLL	100,00 10
589 590	HPV		19	A*0201	YLLLLLILHA	194,48 10
590 591	HPV	type 16 1 type 16 1	19	A*0201	LLLLLLLHAV	1006,21 10
591	HPV		19	B*5102	HAVQICHYVL	165,00 10
592 593	HPV		19	B*2705	VQICHYVLPY	100,00 10
594	HPV		19	A*0205	AAPBAPPOKP	252,00 10
595	HPV		19	Cw*0303		120,00 10
225	HPV	type 16 1	12	CW 050.	- 1011111111111111111111111111111111111	220,00 20

					100	
F0.6	111717	trmo 16 1	10	B*5102	T.DVI.T.OVI.UT	2420,00 10
596	HPV	type 16 1	19 19	B*5102	LPYLLQKLHI	159,72 10
597	HPV	type 16 1	19	A*0201	YLLQKLHIKI	177,57 10
598	HPV	type 16 1 type 16 1	19	B*2705	LRSTYDMGRN	200,00 10
599	HPV	type 16 1 type 16 1	19	B*2702	GRNMIYSLFF	200,00 10
600	HPV	type 16 1	19	B*2705	GRNMIYSLFF	1000,00 10
601	HPV		21	A*0201	VLFVVYMFV	3609,23 9
602	HPV		21		VYMFVCACM	120,00 9
603	HPV		21		MFVCACMCL	220,00 9
604	HPV	type 16 1	21	A*0201	LVLFVVYMFV	315,81 10
605	HPV	type 16 1 type 16 1	21	A*0201	VLFVVYMFVC	170,91 10
606	HPV		21	A*0201	YMFVCACMCL	262,59 10
607	HPV HPV	type 16 1 type 16 1	21	B*2705	YMFVCACMCL	250,00 10
608			22	B*5102	YGIINTCV	290,40 8
609	HPV	type 16 1 type 16 1	22	Cw*0301	TCVCVFKCL	120,00 9
610 611	HPV HPV	type 16 1	22	B*2705	CNYCVMQHK	100,00 9
611		type 16 1	22	A*0201	CMYGIINTCV	160,74 10
612 613	HPV HPV	type 16 1	22	B*5102	YGIINTCVCV	264,00 10
614	HPV	type 16 1	23	Cw*0401	LFGTKCVFL	200,00 9
615	HPV	type 16 1	23	A*0201	MLFGTKCVFL	739,03 10
616	HPV	type 16 1	23	B*2705	MLFGTKCVFL	150,00 10
617	HPV	type 16 1	24	B*5102	APTPYIPL	110,00 8
618	HPV	type 16 1	24	B*5102	YAPTPYIPL	110,00 9
619	HPV	type 16 1	24	B7	APTPYIPLL	240,00 9
620	HPV	type 16 1	24	Cw*0401	APTPYIPLL	192,00 9
621	HPV	type 16 1	24	B*5102	APTPYIPLL	110,00 9
622	HPV	type 16 1	24	A*0201	LLGTYFWLV	1684,90 9
623	HPV	type 16 1	24	Cw*0401	YFWLVLTNL	400,00 9
624	HPV	type 16 1	24	A*0201	VLTNLIAYL	459,40 9
625	HPV	type 16 1	24	Cw*0401	HYAPTPYIPL	240,00 10
626	HPV	type 16 1	24	A24	HYAPTPYIPL	240,00 10
627	HPV	type 16 1	24	B*5102	YAPTPYIPLL	121,00 10
628	HPV	type 16 1	24	B*5102	IPLLGTYFWL	363,00 10
629	HPV	type 16 1	24	Cw*0301	IPLLGTYFWL	100,00 10
630	HPV	type 16 1	24	Cw*0401	TYFWLVLTNL	400,00 10
631	HPV	type 16 1	24	A24	TYFWLVLTNL	280,00 10
632	HPV	type 16 1	24	A*0201	LVLTNLIAYL	148,73 10
633	HPV	type 16 1	24	A*0205	LVLTNLIAYL	142,80 10
634	HPV	type 16 2	1	B*2705	LRREVYDF	1000,00 8
635	HPV	type 16 2	1	B*2705	RREVYDFA	600,00 8
636	HPV	type 16 2	1	B*5102	FAFRDLCI	2200,00 8
637	HPV	type 16 2	1	B*2705	FRDLCIVY	1000,00 8
638	HPV	type 16 2	1	B*2705	YRDGNPYA	200,00 8
639	HPV	type 16 2	1	B*5102	YAVCDKCL	300,00 8
640	HPV	type 16 2	1	B*2705	YRHYCYSL	2000,00 8
641	HPV	type 16 2	1	B*2705	QQYNKPLC	100,00 8
642	HPV	type 16 2	1	B*5102	KPLCDLLI	1200,00 8
643	HPV	type 16 2	1	B*2705	IRCINCQK	2000,00 8
644	HPV	type 16 2	1	B*2705	KQRHLDKK	180,00 8
645	HPV	type 16 2	1	B*2705	KORFHNIR	300,00 8
646	HPV	type 16 2	1	B*2705	IRGRWTGR	1000,00 8
647	HPV	type 16 2	1	B*2705	GRWTGRCM	3000,00 8
648	HPV	type 16 2	1	B*2705	GRCMSCCR	1000,00 8
649	HPV	type 16 2	1	B*2705	CRSSRTRR	300,00 8
650	HPV	type 16 2	1	B*5201	LQTTIHDII	300,00 9
651	HPV	type 16 2	1	B*3901	IHDIILECV	135,00 9
652	HPV	type 16 2	1	B*2705	QQLLRREVY	100,00 9
653	HPV	type 16 2	1	B62	LLRREVYDF	120,00 9
654	HPV	type_16_2	1	B*2705	LRREVYDFA	200,00 9
655	HPV	type 16 2	1	B*2702	RREVYDFAF	600,00 9
656	HPV	type 16 2	1	B*2705	RREVYDFAF	3000,00 9
657	HPV	type 16 2	1	A24	VYDFAFRDL	240,00 9
658	HPV	type 16 2	1	Cw*0401	VYDFAFRDL	330,00 9
659	HPV	type 16 2	1	B*5103	FAFRDLCIV	132,00 9
660	HPV	type 16 2	1	B*5102	FAFRDLCIV	1100,00 9
661	HPV	type 16 2	1	B*2705	FRDLCIVYR	1000,00 9
662	HPV	type 16 2	1	B*2705	YRDGNPYAV	600,00 9
663	HPV	type 16 2	1	B*5102	NPYAVCDKC	110,00 9
664	HPV	type 16 2	1	A1	ISEYRHYCY	135,00 9
665	HPV	type 16 2	1	A24	EYRHYCYSL	200,00 9
666	HPV	type 16 2	1	Cw*0401	EYRHYCYSL	220,00 9
667	HPV	type 16 2	1	B*2702	YRHYCYSLY	200,00 9
668	HPV	type 16 2	1	B*2705	YRHYCYSLY	1000,00 9
669	HPV	type 16 2	1	A24	CYSLYGTTL	200,00 9
670	HPV	type 16 2	1	Cw*0401	CYSLYGTTL	200,00 9
671	HPV	type 16 2	1	в60	LEQQYNKPL	160,00 9
672	HPV	type 16 2	1	A24	QYNKPLCDL	300,00 9
673	HPV	type 16 2	1	Cw*0401	QYNKPLCDL	400,00 9
674	HPV	type 16 2	1	Cw*0401	CPEEKQRHL	105,60 9
675	HPV	type 16 2	1	B*2705	QRHLDKKQR	300,00 9
676	HPV	type 16 2	1	B*2705	QRFHNIRGR	1500,00 9
677	HPV	type 16 2	1	B*2705	IRGRWTGRC	200,00 9
678	HPV	type 16 2	1	B*2705	GRWTGRCMS	1000,00 9
679	HPV	type 16 2	1	B*2705	GRCMSCCRS	200,00 9
680	HPV	type 16 2	1	B14	SRTRRETQL	300,00 9
681	HPV	type 16 2	1	B*2705	SRTRRETQL	2000,00 9
682	HPV	type 16 2	1	B*2705	LQTTIHDIIL	200,00 10
683	HPV	type 16 2	1	B60	LECVYCKQQL	176,00 10
684	HPV	type 16 2	1	A68.1	CVYCKQQLLR	200,00 10
685	HPV	type 16 2	1	B*2705	KQQLLRREVY	300,00 10

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		16.5	4	B*2702	LRREVYDFAF	200,00 10
686	HPV	type 16 2	1		LRREVYDFAF	1000,00 10
687	HPV	type 16 2	1	B*2705		3000,00 10
688	HPV	type 16 2	1	B*2705	RREVYDFAFR	100,00 10
68 <del>9</del>	HPV	type 16 2	1	Cw*0301	EVYDFAFRDL	
690	HPV	type 16 2	1	B*2705	YRDGNPYAVC	
691	HPV	type 16 2	1	B*5102	NPYAVCDKCL	550,00 10
692	HPV	type 16 2	1	в*2705	SEYRHYCYSL	150,00 10
693	HPV	type 16 2	1	B60	SEYRHYCYSL	320,00 10
694	HPV	type 16 2	1	B*2705	QQYNKPLCDL	1000,00 10
695	HPV	type 16 2	1	Cw*0401	QYNKPLCDLL	200,00 10
696	HPV	type 16 2	1	A24	QYNKPLCDLL	360,00 10
697	HPV	type 16 2	1	B*2705	IRCINCQKPL	600,00 10
698	HPV	type 16 2	1	B*2705	CQKPLCPEEK	200,00 10
699	HPV	type 16 2	1	B*2702	QRHLDKKQRF	200,00 10
700	HPV	type 16 2	1	B*2705	QRHLDKKQRF	1000,00 10
701	HPV	type 16 2	1	B*2702	QRFHNIRGRW	500,00 10
702	HPV	type 16 2	1	B*2705	QRFHNIRGRW	1000,00 10
703	HPV	type 16 2	1	B*2705	IRGRWTGRCM	180,00 10
704	HPV	type 16 2	1	B*2702	GRWTGRCMSC	100,00 10
705	HPV	type 16 2	1	B*2705	GRWTGRCMSC	1000,00 10
706	HPV	type 16 2	1	A68.1	WTGRCMSCCR	100,00 10
	HPV	type 16 2	3	B*2705	KONRTEPI	180,00 8
707		type 16 2	3	B*2705	NRTEPITI	600,00 8
708	HPV		3	B*2705	NRTEPITIL	2000,00 9
709	HPV		3	B*2705	KONRTEPITI	180,00 10
710	HPV		4	B*2705	VRDVMDGF	1000,00 8
711	HPV		4	A68.1	QVPMGKRVR	200,00 9
712	HPV	type 16 2	4	B*2705	VRDVMDGFM	600,00 9
713	HPV	type 16 2		A*0201	ILQVPMGKRV	118,24 10
714	HPV	type 16 2	4		VPMGKRVRDV	242,00 10
715	HPV	type 16 2	4	B*5102		600,00 10
716	HPV	type 16 2	4	B*2702	KRVRDVMDGF	3000,00 10
717	HPV	type 16 2	4	B*2705	KRVRDVMDGF	
718	HPV	type 16 2	5	B*2705	HRKQNNIEM	
719	HPV	type 16 2	5	B*2705	KQNNIEMQY	
720	HPV	type 16 2	5	B*2705	KONNIEMQYR	300,00 10
721	HPV	type 16 2	6	B*2705	ARGRGQGK	2000,00 8
722	HPV	type 16 2	6	B*2705	KRWRLFAN	3000,00 8
723	HPV	type 16 2	6	A68.1	DVVQIKFAR	1200,00 9
724	HPV	type 16 2	6	B*2705	ARGRGQGKR	1000,00 9
725	HPV	type 16 2	б	B*2705	GRGQGKRWR	300,00 9
726	HPV	type 16 2	6	B62	GQGKRWRLF	160,00 9
727	HPV	type 16 2	6	B*2702	KRWRLFANV	300,00 9
728	HPV	type 16 2	6	B*2705	KRWRLFANV	9000,00 9
729	HPV	type 16 2	6	A*0201	ILFLKDVVQI	150,93 10
730	HPV	type 16 2	6	B62	FLKDVVQIKF	316,80 10
731	HPV	type 16 2	6	A68.1	VVQIKFARGR	200,00 10
732	HPV	type 16 2	6	B14	GRGQGKRWRL	100,00 10
733	HPV	type 16 2	6	B*2705	GRGQGKRWRL	2000,00 10
734	HPV	type 16 2	7	B*2705	YQRIKHYK	200,00 8
735	HPV	type 16 2	7	B14	QRIKHYKQL	180,00 9
736	HPV	type 16 2	7	B*2705	QRIKHYKQL	600,00 9
737	HPV	type 16 2	7	Cw*0301	. QRIKHYKQL	240,00 9
738	HPV	type 16 2	7	B*2705	QRIKHYKQLN	200,00 10
739	HPV	type 16 2	8	B*2705	TQWTVLQS	100,00 8
740	HPV	type 16 2	8	Cw*0301	TKYPLLKLL	120,00 9
741	HPV	type 16 2	8	A*0201	KLLGSTWPT	723,78 9
742	HPV	type 16 2	8	B*5102	WPTTPPRPI	484,00 9
743	HPV	type 16 2	8	B*5102	WAPKKHRRL	121,00 9
744	HPV	type 16 .2	8	B*2705	TOWTVLOSS	100,00 9
745	HPV	type 16 2	8	B*5102	AATKYPLLKL	110,00 10
746	HPV	type 16 2	8	A*0201	KLLGSTWPTT	164,06 10
747	HPV	type 16 2	8	B*2705	RRLSSDQDQS	600,00 10
748	HPV	type 16 2	8	B*2705	TOWTVLQSSL	1000,00 10
749	HPV	type 16 2	8	B*5102	TAHTKDGLTV	121,00 10
750	HPV	type 16 2	8	B*5103	TAHTKDGLTV	121,00 10
75 <b>1</b>	HPV	type 16 2	9	B*2705	CRLHGIGQDI	600,00 10
752	HPV	type 16 2	11	B*5102	SAFRCFIV	550,00 8
753	HPV	type 16 2	11	B*2705	FRCFIVYI	600,00 8
754	HPV	type 16 2	11	A*0201	LLLSVSTYT	257,80 9
755	HPV	type 16 2	11	Cw*030		100,00 9
756	HPV	type 16 2	11	A*0201	IILVLLLWI	114,14 9
757	HPV	type 16 2	11	B*5103	AASAFRCFI	100,00 9
757 758	HPV	type 16 2	11	B*5102	AASAFRCFI	200,00 9
		type 16 2	11	B*2705	FRCFIVYII	600,00 9
759 760	HPV HPV	type 16 2	11	Cw*030		100,00 9
761	HPV	type 16 2	11	Cw*040		200,00 9
762	HPV	type 16 2	11	A*0201	FVYIPLFLI	179,26 9
762	HPV	type 16 2	11	Cw*040		400,00 10
763	HPV	type 16 2	11	A24	TYTSLIILVL	280,00 10
		type 16 2	11	B*5102	TAASAFRCFI	200,00 10
765 766	HPV		11	B*5103		110,00 10
766 767	HPV		11	B*5103		100,00 10
767	HPV	type 16 2	11 11	B*5102		110,00 10
768	HPV	type 16 2	11	B*5103		1331,00 10
769	HPV	type 16 2		B*5102		159,72 10
770	HPV	type 16 2	11 11	B*2702		200,00 10
771	HPV	type 16 2	11	B*2702		1000,00 10
772	HPV	type 16 2 type 16 2	11	Cw*030		100,00 10
773	HPV		11	Cw*040		200,00 10
774 775	HPV	type 16 2 type 16 2	11	A24	VYIIFVYIPL	420,00 10
775	HPV	CATA TO T		112.2		

					104	
		16.0	4.4	2 +0201	TTTTTTTTT	101,62 10
776	HPV	type 16 2	11	A*0201	IIFVYIPLFL	•
777	HPV	type 16 2	11	Cw*0401	LFLIHTHARF	
778	HPV	type 16 2	11	A*0201	FLIHTHARFL	108,09 10
779	HPV	type 16 2	12	B*2705	QRIPMYQC	200,00 8
780	HPV	type 16 2	12	B*2705	YQCCSKSR	100,00 8
781	HPV	type 16 2	12	B*2705	QRIPMYQCC	200,00 9
782	HPV	type 16 2	12	B*2705	QRIPMYQCCS	200,00 10
783	HPV	type 16 2	13	B*2705	RRHTRRYL	6000,00 8
784	HPV	type 16 2	13	B*3501	SPRRHTRRY	120,00 9
785	HPV	type 16 2	13	в7	SPRRHTRRYL	1200,00 10
786	HPV	type 16 2	14	B*2705	MRAKSLFS	200,00 8
787	HPV	type 16 2	15	Cw*0301	HSIVFYTAL	100,00 9
788	HPV	type 16 2	15	B*5102	TALCATTESL	199,65 10
789	HPV	type 16 2	2	B*2705	HOKRTAMF	100,00 8
790	HPV	type 16 2	2	B*3501	RPRKLPQL	120,00 8
791	HPV	type 16 2	2	B*5102	LPQLCTEL	133,10 8
792	HPV	type 16 2	2	B*2705	LRREVYDF	1000,00 8
793	HPV	type 16 2	2	B*2705	RREVYDFA	600,00 8
794	HPV	type 16 2	2	B*5102	FAFRDLCI	2200,00 8
			2	B*2705	FRDLCIVY	1000,00 8
795	HPV		2	B*2705	YRDGNPYA	200,00 8
796	HPV					300,00 8
797	HPV	type 16 2	2	B*5102	YAVCDKCL	2000,00 8
798	HPV	type 16 2	2	B*2705	YRHYCYSL	
799	HPV	type 16 2	2	B*2705	QQYNKPLC	•
800	HPV	type 16 2	2	B*5102	KPLCDLLI	•
801	HPV	type 16 2	2	B*2705	IRCINCQK	2000,00 8
802	HPV	type 16 2	2	B*2705	KQRHLDKK	180,00 8
803	HPV	type 16 2	2	B*2705	KQRFHNIR	300,00 8
804	HPV	type 16 2	2	B*2705	IRGRWTGR	1000,00 8
805	HPV	type 16 2	2	в*2705	GRWTGRCM	3000,00 8
806	HPV	type 16 2	2	B*2705	GRCMSCCR	1000,00 8
807	HPV	type 16 2	2	B*2705	CRSSRTRR	300,00 8
808	HPV	type 16 2	2	B*2705	AMFQDPQER	125,00 9
809	HPV	type 16 2	2	Cw*0401	DPQERPRKL	116,16 9
810	HPV	type 16 2	2	B*5102	DPQERPRKL	242,00 9
811	HPV	type 16 2	2	B14	ERPRKLPQL	360,00 9
812	HPV	type 16 2	2	B*2705	ERPRKLPQL	200,00 9
813	HPV	type 16 2	2	B*5201	LQTTIHDII	300,00 9
814	HPV	type 16 2	2	B*3901	IHDIILECV	135,00 9
815	HPV	type 16 2	2	B*2705	QQLLRREVY	100,00 9
816	HPV	type 16 2	2	B62	LLRREVYDF	120,00 9
817	HPV	type 16 2	2	B*2705	LRREVYDFA	200,00 9
818	HPV	type 16 2	2	B*2702	RREVYDFAF	600,00 9
819	HPV	type 16 2	2	B*2705	RREVYDFAF	3000,00 9
820	HPV	type 16 2	2	A24	VYDFAFRDL	240,00 9
821	HPV	type 16 2	2	Cw*0401	VYDFAFRDL	330,00 9
822	HPV	type 16 2	2	B*5103	FAFRDLCIV	132,00 9
823	HPV	type 16 2	2	B*5102	FAFRDLCIV	1100,00 9
824	HPV	type 16 2	2	B*2705	FRDLCIVYR	1000,00 9
825	HPV	type 16 2	2	B*2705	YRDGNPYAV	600,00 9
826	HPV		2	B*5102	NPYAVCDKC	110,00 9
827	HPV	type 16 2 type 16 2	2	A1	ISEYRHYCY	135,00 9
828	HPV		2	A24	EYRHYCYSL	200,00 9
			2	Cw*0401	EYRHYCYSL	220,00 9
829	HPV		2	B*2702	YRHYCYSLY	200,00 9
830	HPV		2	B*2705	YRHYCYSLY	1000,00 9
831	HPV	type 16 2 type 16 2	2			200,00 9
832	HPV		2	A24 Cw*0401	CYSLYGTTL CYSLYGTTL	200,00 9
833	HPV					160,00 9
834 -		type 16 2		B60	LEQQYNKPL QYNKPLCDL	300,00 9
835	HPV	type 16 2	2	A24 Cw*0401	-	
836	HPV	type 16 2	2		QYNKPLCDL	,
837	HPV	type 16 2	2	Cw*0401	CPEEKQRHL	•
838	HPV	type 16 2	2	B*2705	QRHLDKKQR	300,00 9 1500,00 9
839	HPV	type 16 2	2	B*2705	QRFHNIRGR	
840	HPV	type 16 2	2	B*2705	IRGRWTGRC	200,00 9 1000,00 9
841	HPV	type 16 2	2	B*2705	GRWTGRCMS	•
842	HPV	type 16 2	2	B*2705	GRCMSCCRS	•
843	HPV	type 16 2	2	B14	SRTRRETQL	300,00 9
844	HPV	type 16 2	2	B*2705	SRTRRETQL	2000,00 9
845	HPV	type 16 2	2	B*2705	FQDPQERPRK	200,00 10
846	HPV	type 16 2	2	В60	QERPRKLPQL	176,00 10
847	HPV	type 16 2	2	Cw*0301	RKLPQLCTEL	100,00 10
848	HPV	type 16 2	2	B*2705	LQTTIHDIIL	200,00 10
849	HPV	type 16 2	2	B60	LECVYCKQQL	176,00 10
850	HPV	type 16 2	2	A68.1	CVYCKQQLLR	200,00 10
851	HPV	type 16 2	2	B*2705	KQQLLRREVY	300,00 10
852	HPV	type 16 2	2	B*2702	LRREVYDFAF	200,00 10
853	HPV	type 16 2	2	B*2705	LRREVYDFAF	1000,00 10
854	HPV	type 16 2	2	B*2705	RREVYDFAFR	3000,00 10
855	HPV	type 16 2	2	Cw*0301	EVYDFAFRDL	100,00 10
856	HPV	type 16 2	2	B*2705	YRDGNPYAVC	200,00 10
857	HPV	type 16 2	2	B*5102	NPYAVCDKCL	550,00 10
858	HPV	type 16 2	2	B*2705	SEYRHYCYSL	150,00 10
859	HPV	type 16 2	2	В60	SEYRHYCYSL	320,00 10
860	HPV	type 16 2	2	B*2705	QQYNKPLCDL	1000,00 10
861	HPV	type 16 2	2	Cw*0401		200,00 10
862	HPV	type 16 2	2	A24	QYNKPLCDLL	360,00 10
863	HPV	type 16 2	2	B*2705	IRCINCOKPL	600,00 10
864	HPV	type 16 2	2	B*2705	COKPLCPEEK	200,00 10
865	HPV	type 16 2	2	B*2702	QRHLDKKQRF	200,00 10
	V	-, F-0	-	,	~	,

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866	HPV	type 16 2	2	B*2705 ORHLDKKORF	1000,00 10
867	HPV	type 16 2	2	B*2702 QRFHNIRGRW	500,00 10
868	HPV	type 16 2	2	B*2705 QRFHNIRGRW	1000,00 10
869	HPV	type 16 2	2	B*2705 IRGRWTGRCM	180,00 10
870	HPV	type 16 2 type 16 2	2 2	B*2702 GRWTGRCMSC B*2705 GRWTGRCMSC	100,00 10 1000,00 10
871 872	HPV HPV	type 16 2 type 16 2	2	A68.1 WTGRCMSCCR	100,00 10
873	HPV	type 16 2	5	B*2705 VQLDKQNR	100,00 8
874	HPV	type 16 2	5	B*2705 KQNRTEPI	180,00 8
875	HPV	type 16 2	5	B*2705 NRTEPITI	600,00 8 200.00 9
876	HPV	type 16 2 type 16 2	5 5	A68.1 MVQLDKQNR B*2705 NRTEPITIL	200,00 9 2000,00 9
877 878	HPV HPV	type 16 2 type 16 2	5	B*2705 KQNRTEPITI	180,00 10
879	HPV	type 16 2	6	B*2705 VRDVMDGF	1000,00 8
880	HPV	type 16 2	6	B*2705 VRDVMDGFM	600,00 9
881	HPV	type 16 2	6	B*2702 KRVRDVMDGF	600,00 10 3000,00 10
882	HPV HPV	type 16 2 type 16 2	6 7	B*2705 KRVRDVMDGF B*2705 TRTKMTVI	600,00 8
883 884	HPV	type 16 2	7	B*2705 KMTVIQVK	150,00 8
885	HPV	type 16 2	7	Cw*0401 LYQMTRTKM	132,00 9
886	HPV	type 16 2	7	A*0201 YQMTRTKMTV	120,02 10
887	HPV	type 16 2	7	B*2705 TRTKMTVIQV B*2705 MRCLLHRK	600,00 10 600,00 8
888 889	HPV HPV	type 16 2 type 16 2	8 8	B*2705 MRCLLHRK B*2705 HRKQNNIEM	600,00 9
890	HPV	type 16 2	В	B*2705 KQNNIEMQY	300,00 9
891	HPV	type 16 2	8	B*2705 KQNNIEMQYR	300,00 10
892	HPV	type 16 2	10	B*5102 NGCVTISKI	193,60 9 200,00 9
893	HPV	type 16 2 type 16 2	11 11	A68.1 CVSNVYDDR A68.1 NVYDDRASK	200,00 9 120,00 9
894 895	HPV HPV	type 16 2 type 16 2	13	B*5102 MPSIINYI	440,00 8
896	HPV	type 16 2	15	B*3901 GHYKTLAL	270,00 8
897	HPV	type 16 2	16	B*2705 IQWKCSLM	300,00 8
898	HPV	type 16 2	16	B*5201 ETYAIQCII	120,00 9 100,00 9
899	HPV HPV	type 16 2 type 16 2	16 16	B*2705 IQTGHIYIF B62 IQTGHIYIF	124,80 9
900 901	HPV	type 16 2	16	B*2705 IQWKCSLMET	100,00 10
902	HPV	type 16 2	17	A24 EYEHILCSL	420,00 9
903	HPV	type 16 2	17	Cw*0401 EYEHILCSL	440,00 9
904	HPV	type 16 2	17	A3 KMMQKNIVK B*2705 KMMQKNIVK	180,00 9 150,00 9
905 906	HPV HPV	type 16 2 type 16 2	17 17	Cw*0401 MFMKEYEHIL	200,00 10
907	HPV	type 16 2	17	B*2705 KEYEHILCSL	450,00 10
908	HPV	type 16 2	17	B60 KEYEHILCSL	176,00 10
909	HPV	type 16 2	17	A*0201 KMMQKNIVKI	224,42 10
910	HPV	type 16 2 type 16 2	17 17	B*2705 MQKNIVKIKY B62 MQKNIVKIKY	100,00 10 288,00 10
9 <b>1</b> 1 9 <b>1</b> 2	HPV HPV	type 16 2 type 16 2	18	B*2705 TNFCLKLK	100,00 8
913	HPV	type 16 2	18	B*2705 YQKLLQCL	200,00 8
914	HPV	type 16 2	18	B8 CLKLKYQKL	160,00 9
915	HPV	type 16 2	18	A24 KYQKLLQCL Cw*0401 KYQKLLQCL	864,00 9 400,00 9
916 917	HPV HPV	type 16 2 type 16 2	18 18	B*2705 YQKLLQCLL	200,00 9
918	HPV	type 16 2	18	A*0201 KLLQCLLDL	636,28 9
919	HPV	type 16 2	18	A*0205 KLLQCLLDL	126,00 9
920	HPV	type 16 2	18	B*2705 LQCLLDLCL	200,00 9 120,00 10
921	HPV	type 16 2 type 16 2	18 18	A68.1 NVTNFCLKLK Cw*0301 FCLKLKYQKL	120,00 10 120,00 10
922 923	HPV HPV	type 16 2	18	Cw*0401 KYQKLLQCLL	200,00 10
924		- type -16 2	18	A24 KYQKLLQCLL	720,00 10
925	HPV	type 16 2	18	B*2705 LQCLLDLCLY	100,00 10
926	HPV	type 16 2 type 16 2	18 19	B*2705 MRHKRSAK	135,00 10 2000,00 8
927 928	HPV HPV	type 16 2 type 16 2	19	B*2705 KRSAKRTK	6000,00 8
929	HPV	type 16 2	19	B*2705 KRTKRASA	600,00 8
930	HPV	type 16 2	19	B*2705 KRASATQL	6000,00 8
931	HPV	type 16 2	19	B*2705 TQLYKTCK B*2705 LQYGSMGV	200,00 8 300,00 8
932 933	HPV HPV	type 16 2 type 16 2	19 19	B*2705 GRTGYIPL	2000,00 8
934	HPV	type 16 2	19	B*5102 GPSDPSIV	200,00 8
935	HPV	type 16 2	19	B*5102 DPSIVSLV	220,00 8
936	HPV	type 16 2	19	B*5102 DAGAPTSV	110,00 8
937	HPV	type 16 2 type 16 2	19 19	B*5102 APTSVPSI B*5102 VPSIPPDV	440,00 8 200,00 8
938 939	HPV HPV	type 16 2 type 16 2	19	B*5102 IPMDTFIV	220,00 8
940	HPV	type 16 2	19	B*5102 RPVARLGL	300,00 8
941	HPV	type 16 2	19	B*2705 ARLGLYSR	1000,00 8
942	HPV	type 16 2	19	B*2705 SRTTQQVK B*5102 DPDFLDIV	2000,00 8 100,00 8
943 944	HPV HPV	type 16 2 type 16 2	19 <b>1</b> 9	B*5102 DPDFLDIV B*5102 VALHRPAL	165,00 8
945	HPV	type 16 2	19	B*2705 HRPALTSR	1000,00 8
946	HPV	type 16 2	19	B*2705 SRRTGIRY	300,00 8
947	HPV	type 16 2	19	B*2705 RRTGIRYS	600,00 8
948		type 16 2	19 19	B*5102 TGIRYSRI B*2705 IRYSRIGN	290,40 8 1000,00 8
949 950		type 16 2 type 16 2	19	B*2705 IRISKIGN B*2705 SRIGNKQT	200,00 8
951		type 16 2	19	B*5102 DPAEEIEL	133,10 8
952	HPV	type 16 2	19	B*5102 HAASPTSI	220,00 8
953		type 16 2	19	B*5102 GAYNIPLV	550,00 8 220,00 8
954 955		type 16 2 type 16 2	19 19	B*5102 GPDIPINI B*5102 QAPSLIPI	220,00 8 220,00 8
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056	HPV	type 16 2	19	B*5102 APSL	IPIV	220,00 8
956 95 <b>7</b>	HPV	type 16 2	19		RKRL	600,00 8
958	HPV	type 16 2	19	B*2705 KRRK	RLPY	3000,00 8
959	HPV	type 16 2	19		LPYF	3000,00 8
960	HPV	type 16 2	19		YFFS	600,00 8 1000,00 8
961	HPV	type 16 2 type 16 2	19 19		FSDV CRSAKR	1000,00 9
962 963	HPV HPV	type 16 2	19		KRTKR	3000,00 9
964	HPV	type 16 2	19		CRASAT	600,00 9
965	HPV	type 16 2	19		SATQLY	600,00 9
966	HPV	type 16 2	19		SATQLY	3000,00 9 110,00 9
967	HPV	type 16 2 type 16 2	19		CPPDI CPPDI	110,00 9 220,00 9
968 969	HPV HPV	type 16 2 type 16 2	19 19		DIIPKV	440,00 9
970	HPV	type 16 2	19		ÆGKTI	242,00 9
971	HPV	type 16 2	19	-	'GSMGV	118,24 9
972	HPV	type 16 2	19		SMGVF	100,00 9
973	HPV	type 16 2	19 19		SMGVF SMGVF	500,00 9 375,00 9
974 975	HPV HPV	type 16 2 type 16 2	19		SMGVF	105,60 9
976	HPV	type 16 2	19		SMGVFF	100,00 9
977	HPV	type 16 2	19		SMGVFF	110,00 9
978	HPV	type 16 2	19		SGTGGR	100,00 9
979	HPV	type 16 2	19		PTATDT	200,00 9 133,10 9
980	HPV	type 16 2 type 16 2	19 19		PATOTL OTLAPV	110,00 9
981 982	HPV	type 16 2	19		OTLAPV	110,00 9
983	HPV	type 16 2	19	B*5102 APVI	RPPLTV	726,00 9
984	HPV	type 16 2	19		LTVDPV	242,00 9
985	HPV	type 16 2	19		SDPSIV	150,00 9 235,26 9
986	HPV	type 16 2 type 16 2	19 19		EETSFI PSVPSI	235,26 9 110,00 9
987 988	HPV	type 16 2	19		rsvpsi	220,00 9
989	HPV	type 16 2	19		VTMNIC	145,08 9
990	HPV	type 16 2	19		FTDPSV	220,00 9
991	HPV	type 16 2	19		GGHFTL	160,00 9
992	HPV	type 16 2 type 16 2	19 19		PGSRPV VARLGL	726,00 9 200,00 9
993 994	HPV HPV	type 16 2 type 16 2	19		VARLGL	2000,00 9
995	HPV	type 16 2	19		GLYSRT	200,00 9
996	HPV	type 16 2	19		TQQVKV	600,00 9
997	HPV	type 16 2	19		TTPTKL	264,00 9 200,00 9
998	HPV	type 16 2 type 16 2	19 19		YEGIDV PDFLDI	200,00 9 200,00 9
999 1000	HPV HPV	type 16 2 type 16 2	19		ALTSRR	1000,00 9
1001	HPV	type 16 2	19		GIRYSR	3000,00 9
1002	HPV	type 16 2	19	B*2705 IRY	SRIGNK	10000,00 9
1003	HPV	type 16 2	19		GNKQTL	2000,00 9
1004	HPV	type 16 2 type 16 2	19 19		RSGKSI GKSIGA	180,00 9 200,00 9
1005 1006	HPV HPV	type 16 2 type 16 2	19		HYYYDL	100,00 9
1007	HPV	type 16 2	19		ITPSTY	100,00 9
1008	HPV	type 16 2	19		SINNGL	110,00 9
1009	HPV	type 16 2	19		IYADDF	100,00 9 150,00 9
1010	HPV	type 16 2 type 16 2	19 19		IYADDF YADDFI	150,00 9 200,00 9
1011 1012	HPV HPV	type 16 2 type 16 2	19		VPSTSL	120,00 9
1013	HPV	type 16 2	19		VPSTSL	100,00 9
1014	- HEV -	type 16 2	19		GGAYNI	2420,00_9
1015	HPV	type 16 2	19		VSGPDI SLIPIV	1200,00 9 110.00 9
1016	HPV	type 16 2 type 16 2	19 19		SLIPIV	110,00 9
1017 1018	HPV HPV	type 16 2 type 16 2	19		SPQYTI	484,00 9
1019	HPV	type 16 2	19	Cw*0401 FYL	HPSYYM	100,00 9
1020	HPV	type 16 2	19		PSYYML	147,40 9
1021	HPV	type 16 2	19		KRRKRL KRLPYF	160,00 9 600,00 9
1022 1023	HPV HPV	type 16 2 type 16 2	19 19		KRLPYF	3000,00 9
1023	HPV	type 16 2	19		RLPYFF	600,00 9
1025	HPV	type 16 2	19		RLPYFF	3000,00 9
1026	HPV	type 16 2	19		YFFSDV	502,17 9
1027	HPV	type 16 2	19		SAKRTKRA SATOLYK	180,00 10 6000,00 10
1028 1029	HPV	type 16 2 type 16 2	19 19		GTCPPDI	180,00 10
1030	HPV HPV	type 16 2	19		TCPPDII	220,00 10
1031	HPV	type 16 2	19	B*5103 QAG	TCPPDII	110,00 10
1032	HPV	type 16 2	19		GSMGVFF	100,00 10
1033	HPV	type 16 2	19 10		GSMGVFF	500,00 10 168,75 10
1034	HPV	type 16 2 type 16 2	19 19		GSMGVFF GSMGVFF	115,20 10
1035 1036	HPV HPV	type 16 2 type 16 2	19		GSMGVFF GVFFGGL	100,00 10
1037	HPV	type 16 2	19		/FFGGLGI	264,00 10
1038	HPV	type 16 2	19	B*5102 SGT	GGRTGYI	106,48 10
1039	HPV	type 16 2	19		GYIPLGT	200,00 10
1040	HPV	type 16 2	19		SYIPLGTR PPTATDTL	100,00 10 2000,00 10
1041 1042	HPV HPV	type 16 2 type 16 2	19 19		PVRPPLTV	110,00 10
1043	HPV	type 16 2	19		PVRPPLTV	110,00 10
1044	HPV	type 16 2	19	B*2705 VRI	PPLTVDPV	600,00 10
1045	HPV	type 16 2	19	B*5102 DP\	/GPSDPSI	1320,00 10

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1046	HPV	type 16 2	19	B*5102 GPSDPSIVSL	110,00 10
1047	HPV	type 16 2	19	Cw*0401 GPSDPSIVSL	211,20 10
1048	HPV	type 16 2	19	B*5102 IPPDVSGFSI	400,00 10
1049	HPV	type 16 2	19	B*5102 NPTFTDPSVL	100,00 10 144,00 10
1050	HPV	type 16 2	19 19	Cw*0401 NYEEIPMDTF A24 NYEEIPMDTF	144,00 10 180,00 10
1051	HPV	type 16 2 type 16 2	19	B7 IPGSRPVARL	120,00 10
1052 1053	HPV HPV	type 16 2 type 16 2	19	B*5102 IPGSRPVARL	200,00 10
1054	HPV	type 16 2	19	Cw*0401 IPGSRPVARL	192,00 10
1055	HPV	type 16 2	19	B*2702 SRPVARLGLY	200,00 10
1056	HPV	type 16 2	19	B*2705 SRPVARLGLY	1000,00 10
1057	HPV	type 16 2	19	A*0201 GLYSRTTQQV	222,57 10
1058	HPV	type 16 2	19	B*2705 SRTTQQVKVV	180,00 10 100,00 10
1059	HPV	type 16 2 type 16 2	19 19	B*2705 QQVKVVDPAF B60 YEGIDVDNTL	176,00 10
1060 1061	HPV HPV	type 16 2 type 16 2	19	B*5102 IAPDPDFLDI	200,00 10
1062	HPV	type 16 2	19	B*5103 IAPDPDFLDI	100,00 10
1063	HPV	type 16 2	19	B*5102 APDPDFLDIV	100,00 10
1064	HPV	type 16 2	19	B*5201 APDPDFLDIV	198,00 10
1065	HPV	type 16 2	19	Cw*0401 DPDFLDIVAL	240,00 10 135,00 10
1066	HPV	type 16 2 type 16 2	19 19	B14 DIVALHRPAL B*2705 SRRTGIRYSR	1000,00 10
1067 1068	HPV HPV	type 16 2 type 16 2	19	B*2702 RRTGIRYSRI	180,00 10
1069	HPV	type 16 2	19	B*2705 RRTGIRYSRI	1800,00 10
1070	HPV	type 16 2	19	B*2705 IRYSRIGNKQ	100,00 10
1071	HPV	type 16 2	19	B*2705 SRIGNKQTLR	1000,00 10
1072	HPV	type 16 2	19	B*2705 KQTLRTRSGK	600,00 10 2000,00 10
1073	HPV	type 16 2 type 16 2	19 19	B*2705 TRSGKSIGAK A*0201 FITDTSTTPV	180,37 10
1074 1075	HPV HPV	type 16 2 type 16 2	19	B*5102 VPSTSLSGYI	484,00 10
1076	HPV	type 16 2	19	B*5102 SGYIPANTTI	484,00 10
1077	HPV	type 16 2	19	B*5103 SGYIPANTTI	132,00 10
1078	HPV	type 16 2	19	B*5201 DQAPSLIPIV	240,00 10
1079	HPV	type 16 2	19	B*5102 VPGSPQYTII	440,00 10 653,09 10
1080	HPV	type 16 2 type 16 2	19 19	A*0201 IIADAGDFYL Cw*0401 DFYLHPSYYM	100,00 10
1081 1082	HPV HPV	type 16 2 type 16 2	19	Cw*0301 FYLHPSYYML	100,00 10
1083	HPV	type 16 2	19	Cw*0401 FYLHPSYYML	200,00 10
1084	HPV	type 16 2	19	A24 FYLHPSYYML	300,00 10
1085	HPV	type 16 2	19	A*0201 YMLRKRRKRL	262,59 10
1086	HPV	type 16 2	19	B14 YMLRKRRKRL	250,00 10 200,00 10
1087	HPV	type 16 2 type 16 2	19 19	B*2702 LRKRRKRLPY B*2705 LRKRRKRLPY	200,00 10 1000,00 10
1088 1089	HPV	type 16 2 type 16 2	19	B*2702 KRRKRLPYFF	600,00 10
1090	HPV	type 16 2	19	B*2705 KRRKRLPYFF	3000,00 10
1091	HPV	type 16 2	19	B*2705 RRKRLPYFFS	600,00 10
1092	HPV	type 16 2	19	B*2705 KRLPYFFSDV	1800,00 10 500,00 10
1093 1094	HPV HPV	type 16 2 type 16 2	19 20	B*5102 LPYFFSDVSL B*5102 YGLQTNTI	638,88 8
1095	HPV	type 16 2	20	B*2705 LQTNTIVF	100,00 8
1096	HPV	type 16 2	20	B*2705 YRGTLGQR	1000,00 8
1097	HPV	type 16 2	20	B*5102 RGTLGQRI	117,13 8
1098	HPV	type 16 2	20	B*2705 QRIPMYQC B*2705 YQCCSKSR	200,00 8 100,00 8
1099 1100	HPV HPV	type 16 2 type 16 2	20 20	B*2705 YQCCSKSR B*5201 YGLQTNTIV	165,00 9
1101	HPV	type 16 2	20	B*5102 YGLQTNTIV	319,44 9
1102	HPV	type 16 2	20	B*5801 QTNTIVFNW	158,40 9
1103	HPV	type 16 2	20	B*2705 LQTTYRGTL	200,00 9
1104	HPV	type_16_2	2.0	B*2705 YRGTLGQRI	600,00 9 200,00 9
1105 1106	HPV HPV	type 16 2 type 16 2	20 20	B*2705 QRIPMYQCC B*2705 QRIPMYQCCS	200,00 10
1107	HPV	type 16 2	22	B*2705 MRAKSLFS	200,00 8
1108	HPV	type 16 2	23	B*2705 MRQRLTYR	1000,00 8
1109	HPV	type 16 2	23	B*2705 MRQRLTYRC	200,00 9
1110	HPV	type 16 3	1	B*2705 LQCFRTHR	100,00 8 1000,00 8
1111	HPV	type 16 3 type 16 3	1 1	B*2705 HRSDPESY B*5102 YAQSCKQL	110,00 8
1112 1113	HPV HPV	type 16 3 type 16 3	1	B*2705 AQSCKQLY	100,00 8
1114	HPV	type 16 3	1	B*2705 HRSDPESYH	200,00 9
1115	HPV	type 16 3	1	A24 SYAQSCKQL	200,00 9
1116	HPV	type 16 3	1	Cw*0401 SYAQSCKQL	200,00 9
1117	HPV	type 16 3	1	B*2705 FRTHRSDPES	200,00 10 200,00 10
1118	HPV	type 16 3 type 16 3	1 1	B*2705 HRSDPESYHS A1 RSDPESYHSY	375,00 1
1119 1120	HPV HPV	type 16 3	4	B*2705 LRSTAAAL	2000,00 8
1121	HPV	type 16 3	4	B*2705 QRQTVLQH	200,00 8
1122	HPV	type 16 3	4	B*2705 SQMVQWAY	100,00 8
1123	HPV	type 16 3	4	B*5102 WAYDNDIV	550,00 8
1124	HPV	type 16 3	4	B*5102 IAYKYAQL	302,50 8 1800,00 8
1125 1126	HPV	type 16 3 type 16 3	4 4	B*2705 KRAEKKQM B*2705 KQIVMFLR	300,00 8
1127	HPV HPV	type 16 3	4	B*2705 LRYQGVEF	5000,00 8
1128	HPV	type 16 3	4	B*2705 KRFLQGIP	300,00 8
1129	HPV	type 16 3	4	B*2705 LQGSVICF	100,00 8
1130	HPV	type 16 3	4	B*3901 SHFWLQPL	180,00 8
1131	HPV	type 16 3	4	B*2705 LQPLADAK B*5102 QPLADAKI	200,00 8 1320,00 8
1132 1133	HPV HPV	type 16 3 type 16 3	4 4	B*5102 QPLADAKI B*2705 WNYIDDNL	100,00 8
1134	HPV	type 16 3	4	B*2705 LRNALDGN	200,00 8
1135	HPV	type 16 3	4	B*5102 NALDGNLV	363,00 8

- 186 -

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1136	HPV	type 16 3	4	B*2705	HRPLVQLK	2000,00 8	
1137	HPV	type 16 3	4	B*2705	VQLKCPPL	200,00 8	
1138	HPV	type 16 3	4	B*2705	SRWPYLHN	1000,00 8	
1139	HPV	type 16 3	4	B*5102	WPYLHNRL	665,50 8 1000,00 8	
1140	HPV	type 16 3	4 4	B*2705 B*2705	NRLVVFTF SRTWSRLS	1000,00 8 200,00 8	
1141	HPV	type 16 3 type 16 3	4	B*2705	RTWSRLSL	150,00 8	
1142 1143	HPV HPV	type 16 3	4	B*2702	LRSTAAALY	200,00 9	
1144	HPV	type 16 3	4	B*2705	LRSTAAALY	1000,00 9	
1145	HPV	type 16 3	4	B*5801	RSTAAALYW	264,00 9	
1146	HPV	type 16 3	4	B*5102	TGISNISEV	145,20 9 200,00 9	
1147	HPV	type 16 3	4 4	B*2705 B*2705	QRQTVLQHS RQTVLQHSF	300,00 9	
1148 1149	HPV HPV	type 16 3 type 16 3	4	B62	RQTVLQHSF	160,00 9	
1150	HPV	type 16 3	4	Cw*0401	SFNDCTFEL	240,00 9	
1151	HPV	type 16 3	4	B*2705	VQWAYDNDI	300,00 9	
1152	HPV	type 16 3	4	A1	IVDDSEIAY	125,00 9	
1153	HPV	type 16 3	4	A68.1	ATMCRHYKR	100,00 9 2000,00 9	
1154	HPV	type 16 3 type 16 3	4 4	B*2705 B*2705	CRHYKRAEK KRAEKKQMS	600,00 9	
1155 1156	HPV HPV	type 16 3 type 16 3	4	B*2705	KQMSMSQWI	180,00 9	
1157	HPV	type 16 3	4	A68.1	RVDDGGDWK	120,00 9	
1158	HPV	type 16 3	4	B*2705	KQIVMFLRY	300,00 9	
1159	HPV	type 16 3	4	A*0201	VMFLRYQGV	473,94 9 144,00 9	
1160	HPV	type 16 3	4	B62 B*2702	FLRYQGVEF LRYQGVEFM	144,00 9 100,00 9	
1161	HPV HPV	type 16 3 type 16 3	4 4	B*2702	LRYQGVEFM	3000,00 9	
1162 1163	HPV	type 16 3	4	B*2705	YQGVEFMSF	100,00 9	
1164	HPV	type 16 3	4	B62	YQGVEFMSF	160,00 9	
1165	HPV	type 16 3	4	Cw*0401		400,00 9	
1166	HPV	type 16 3	4	Cw*0401		220,00 9 108,09 9	
1167	HPV	type 16 3 type 16 3	<u>4</u> 4	A*0201 B*2705	FLTALKRFL KRFLQGIPK	30000,00	9
1168 1169	HPV HPV	type 16 3 type 16 3	4	B*5102	QGIPKKNCI	240,00 9	
1170	HPV	type 16 3	4	A3	SLFGMSLMK	300,00 9	
1171	HPV	type 16 3	4	B*2705	SLFGMSLMK	150,00 9	
1172	HPV	type 16 3	4	Cw*0401		220,00 9	
1173	HPV	type 16 3	4	A*0201 A68.1	LQGSVICFV SVICFVNSK	151,65 9 240,00 9	
1174	HPV	type 16 3 type 16 3	4 4		CFVNSKSHF	110,00 9	
1175 1176	HPV HPV	type 16 3	4	B*2705	LRNALDGNL	2000,00 9	
1177	HPV	type 16 3	4	A68.1	LVSMDVKHR	300,00 9	
1178	HPV	type 16 3	4	B*2705	HRPLVQLKC	200,00 9	
1179	HPV	type 16 3	4	B*2705	VQLKCPPLL	200,00 9 145,20 9	
1180	HPV	type 16 3	<b>4</b> 4	B*5102 B*2705	PPLLITSNI SRWPYLHNR	5000,00 9	
1181 1182	HPV HPV	type 16 3 type 16 3	4	B*5103	WPYLHNRLV	132,00 9	
1183	HPV	type 16 3	4	B*5102	WPYLHNRLV	1331,00 9	
1184	HPV	type 16 3	4	B*2705	KNWKSFFSR	150,00 9	
1185	HPV	type 16 3	4	Cw*0401		240,00 9 100.00 9	
1186	HPV	type 16 3	4	B14 B*2705	SRTWSRLSL SRTWSRLSL	100,00 9 2000,00 9	
1187	HPV HPV	type 16 3 type 16 3	4 4	B62	KLRSTAAALY	120,00 10	
1188 1189	HPV	type 16 3	4	B*2702	LRSTAAALYW	100,00 10	
1190	HPV	type 16 3	4	B*2705	LRSTAAALYW	200,00 10	
1191	HPV	type 16 3	4	B*5102	AALYWYKTGI	600,00 10	
1192	HPV	type 16 3	4	B*5103	AALYWYKTGI	132,00 10 133,10 10	
1193	HPV	type 16 3	4 <u>4</u>	B*5102 B*2702	TPEWIQRQTV ORQTVLQHSF	200,00 10	
1194 - 1195	HPV HPV	type 16 3 type 16 3	4	B*2705	QRQTVLQHSF	1000,00 10	-
1196	HPV	type 16 3	4	B*2705	LQHSFNDCTF	100,00 10	
1197	HPV	type 16 3	4	B*2705	VQWAYDNDIV	300,00 10	
1198	HPV	type 16 3	4	B*5201	VQWAYDNDIV	990,00 10 120,00 10	
1199	HPV	type 16 3 type 16 3	4 4	A68.1 B60	IVDDSEIAYK SEIAYKYAQL	120,00 10 352,00 10	
1200 1201	HPV HPV	type 16 3 type 16 3	4	Cw*0301		100,00 10	
1202	HPV	type 16 3	4	A68.1	IVKDCATMCR	200,00 10	
1203	HPV	type 16 3	4	B*2705	CRHYKRAEKK	2000,00 10	
1204	HPV	type 16 3	4		HYKRAEKKQM	100,00 10	
1205	HPV	type 16 3	4	B*2705	KRAEKKQMSM KQMSMSQWIK	1800,00 10 600,00 10	
1206	HPV	type 16 3 type 16 3	<u>4</u> 4	B*2705 B*2705	SQWIKYRCDR	500,00 10	
1207 1208	HPV HPV	type 16 3 type 16 3	4	B*2705	DRVDDGGDWK	200,00 10	
1209	HPV	type 16 3	4	B*3701	GDWKQIVMFL	300,00 10	
1210	HPV	type 16 3	4		L MFLRYQGVEF	100,00 10	
1211	HPV	type 16 3	4	B*2705	LRYQGVEFMS	1000,00 10	
1212	HPV	type 16 3	4		1 RYQGVEFMSF	110,00 10 360,00 10	
1213	HPV	type 16 3 type 16 3	4 4	A24 A*0201	RYQGVEFMSF YQGVEFMSFL	478,93 10	
1214 1215	HPV HPV	type 16 3	4	B*2705	YQGVEFMSFL	200,00 10	
1215	HPV	type 16 3	4	B*2705	VEFMSFLTAL	150,00 10	
1217	HPV	type 16 3	4	B60	VEFMSFLTAL	160,00 10	
1218	HPV	type 16 3	4		1 SFLTALKRFL	200,00 10	
1219	HPV	type 16 3	4	B*5102	TALKRFLQGI	726,00 10 132,00 10	
1220	HPV	type 16 3	4 4	B*5103 B*2705	TALKRFLQGI KRFLQGIPKK	132,00 10 30000,00	10
1221 1222	HPV HPV	type 16 3 type 16 3	4		1 QGIPKKNCIL	100,00 10	-
1223	HPV	type 16 3	4	B*3501		120,00 10	
1224	HPV	type 16 3	4	A3	LLYGAANTGK	150,00 10	
1225	HPV	type 16 3	4	B*2705	LLYGAANTGK	150,00 10	

- 187 -

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_			h 10	_	4	Cw*0401	T DOMOT MIZET	240,00 10
	.226	HPV		3	4		LFGMSLMKFL	200,00 10
	.227	HPV	type 16	3	4		KFLQGSVICF	
1	.228	HPV	type 16	3	4	A*0201	FLQGSVICFV	4047,23 10
1	.229	HPV	type 16	3	4	A*0201	FVNSKSHFWL	274,29 10
1	.230	HPV	type 16	3	4	B*5102	DATVPCWNYI	220,00 10
1	.231	HPV	type 16	3	4	B*5103	DATVPCWNYI	121,00 10
	.232	HPV	type 16	3	4	B*2705	LRNALDGNLV	600,00 10
	.233	HPV	type 16	3	4	B*5102	CPPLLITSNI	484,00 10
	.234	HPV	type 16	3	4	B*2702	SRWPYLHNRL	300,00 10
				3	4	B*2705	SRWPYLHNRL	10000,00
	.235	HPV	type 16		4	B*5102	WPYLHNRLVV	1210,00 10
	.236	HPV	type 16	3				
1	.237	HPV	type 16	3	4	B*5103	WPYLHNRLVV	•
1	.238	HPV	type 16	3	4	B*5201	WPYLHNRLVV	300,00 10
1	.239	HPV	type 16	3	4	A*0201	YLHNRLVVFT	433,63 10
1	L240	HPV	type 16	3	4	B*2705	NRLVVFTFPN	200,00 10
	241	HPV	type 16	3	4	Cw*0401	VFTFPNEFPF	100,00 10
	242	HPV	type 16	3	4	B*5102	FPFDENGNPV	2200,00 10
	L243	HPV	type 16	3	4	B60	DENGNPVYEL	320,00 10
			type 16	3	4	Cw*0401	SFFSRTWSRL	240,00 10
	L244	HPV		3	4	B*2705	SRTWSRLSLH	200,00 10
	L245	HPV	type 16					100,00 9
	L246	HPV	type 16	3	5	B*5103	LACFLLCFV	
1	1247	HPV	type 16	3	5	B*5102	LACFLLCFV	777721 1
1	L248	HPV	type 16	3	5	Cw*0401	CFLLCFVCF	100,00 9
1	1249	HPV	type 16	3	5	A*0201	FLLCFVCFC	4064,58 9
1	1250	HPV	type 16	3	5	A*0201	LLCFVCFCV	685,78 9
	1251	HPV	type 16	3	5	A*0201	FLLCFVCFCV	6865,90 10
	1252	HPV	type 16	3	6	B*2705	LRLGVLLY	1000,00 8
	1253	HPV	type 16	3	6	B*2705	LRLGVLLYI	600,00 9
				3	6	A*0205	GVLLYILYL	100,80 9
	1254	HPV	type 16					468,22 9
	1255	HPV	type 16	3	6	A*0201	LLYILYLFI	•
	1256	HPV	type 16	3	6	A3	ILYLFIYHY	,
:	1257	HPV	type 16	3	6	B62	ILYLFIYHY	104,00 9
	1258	HPV	type 16	3	6	A24	LYLFIYHYF	210,00 9
;	1259	HPV	type 16	3	6	Cw*0401	LYLFIYHYF	100,00 9
	1260	HPV	type 16	3	6	B1.4	LRLGVLLYIL	300,00 10
	1261	HPV	type 16	3	6	B*2705	LRLGVLLYIL	2000,00 10
	1262	HPV	type 16	3	6	B62	RLGVLLYILY	192,00 10
			type 16	3	6	A*0201	VLLYILYLFI	541,38 10
	1263	HPV			6	A3	LLYILYLFIY	270,00 10
	1264	HPV	type 16	3				114,40 10
	1265	HPV	type 16	3	6	B62	ILYLFIYHYF	
	1266	HPV	type 16	3	7	B*2705	HRLPNFIK	
	1267	HPV	type 16	3	7	B*5102	HANRQVHV	121,00 8
	1268	HPV	type 16	3	7	B*2705	NRQVHVHL	2000,00 8
	1269	HPV	type 16	3	7	в8	YLRLKAKL	160,00 8
	1270	HPV	type 16	3	7	B*2705	LRLKAKLL	2000,00 8
	1271	HPV	type 16	3	7	B*2705	LQNAQNVHR	100,00 9
	1272	HPV	type 16	3	7	B*2705	HRLPNFIKH	200,00 9
			type 16	3	7	В7	ANRQVHVHL	120,00 9
	1273	HPV		3	7	B*2705	NRQVHVHLT	200,00 9
	1274	HPV	type 16					600,00 9
	1275	HPV	type 16	3	7	B*2705	RQVHVHLTL	· · · · · · · · · · · · · · · · ·
	1276	HPV	type 16	3	7	B*3901	VHVHLTLYL	180,00 9
	1277	HPV	type 16	3	7	A68.1	HVHLTLYLR	200,00 9
	1278	HPV	type 16	3	7	B*3901	VHLTLYLRL	180,00 9
	1279	HPV	type 16	3	7	Cw*0301	VHLTLYLRL	100,00 9
	1280	HPV	type 16	3	7	A24	LYLRLKAKL	396,00 9
	1281	HPV	type 16	3	7	Cw*0401	LYLRLKAKL	264,00 9
	1282	HPV	type 16	3	7	в8	YLRLKAKLL	160,00 9
				3	7	B14	LRLKAKLLL	100,00 9
	1283	HPV	type 16		7		LRLKAKLLL	2000,00 9
	1284		type 16	3				
	1285	HPV	type 16	3	7	B*2705	LQNAQNVHRL	
	1286	HPV	type 16		7	B*2705	AQNVHRLPNF	100,00 10
	1287	HPV	type 16	3	7	A68.1	NVHRLPNFIK	120,00 10
	1288	HPV	type 16	3	7	B*2705	NRQVHVHLTL	2000,00 10
	1289	HPV	type 16	3	7	B*2705	RQVHVHLTLY	300,00 10
	1290	HPV	type 16	3	7	B*2705	TLYLRLKAKL	150,00 10
	1291	HPV	type 16		7	Cw*0401	LYLRLKAKLL	200,00 10
	1292	HPV	type 16	3	7	A24	LYLRLKAKLL	300,00 10
	1293	HPV	type 16		7	B*2705	LRLKAKLLLN	200,00 10
	1293	HPV	type 16		7	A*0201	LLNKYYNMEV	118,24 10
					7	Cw*0401		100,00 10
	1295	HPV	type 16					210,00 10
	1296	HPV	type 16		7	A24	YYNMEVWVYF	
	1297	HPV	type 16		7	A*0201	YNMEVWVYFL	123,10 10
	1298	HPV	type 16		8	B*5102	QGLPQLQI	290,40 8
	1299	HPV	type 16		8	B*5102	LPQLQIHL	133,10 8
	1300	HPV	type 16		8	Cw*0401	LPQLQIHLL	160,00 9
	1301	HPV	type 16		8	B*5102	POLOIHPP	133,10 9
	1302	HPV	type 16		8	B*3901	FHWEQGLPQL	540,00 10
	1303	HPV	type 16		8	Cw*0301		100,00 10
					8	B*5102	PEOLOIHPPP	110,00 10
	1304	HPV	type 16					100,00 8
	1305	HPV	type 16		10	B*2705	HOHLYLPF	
	1306	HPV	type 16		10	B*5102	FPQMYQDL	
	1307	HPV	type 16		10	B*2705	OMAODPAP	250,00 8
	1308	HPV	type 16		10	B*2705	$\mathtt{A}\mathtt{O}\mathtt{D}\mathtt{r}\mathtt{A}\mathtt{r}\mathtt{r}\mathtt{r}$	200,00 8
	1309	HPV	type 16		10	B*2705	LQLIPHLL	200,00 8
	1310	HPV	type 16		10	B*5102	FPQMYQDLV	440,00 9
	1311	HPV	type 16		10	A*0201	<b>OWAODPAPP</b>	113,55 9
	1312	HPV	type 16		10	B*2705	OWAODIAT	250,00 9
					10	A24	WAODPAPP	432,00 9
	1313	HPV	type 16			Cw*0401		480,00 9
	1314	HPV	type 16		10			•
	1315	HPV	type 16	3	10	A*0201	LLLQLIPHL	309,05 9

- 188 -

1316				- 188 -	
1316		<b></b> 16 2	10	B*2705 LQLIPHLLY	100,00 9
	HPV	type 16 3	10 10	B*2705 LQLIPHLLY B*5102 LPFPQMYQDL	550,00 10
1317	HPV	type 16 3	10	Cw*0301 LPFPOMYODL	180,00 10
1318	HPV	type 16 3	10	Cw*0401 LPFPQMYQDL	105,60 10
1319	HPV	type 16 3	10	B*5102 FPQMYQDLVL	220,00 10
1320	HPV	type 16 3	10	A*0201 QMYQDLVLLL	113,55 10
1321	HPV	type 16 3			250,00 10
1322	HPV	type 16 3	10	B*2705 QMYQDLVLLL B*2705 YQDLVLLLQL	200,00 10
1323	HPV	type 16 3	10		200,00 10
1324	HPV	type 16 3	10		309,05 10
1325	HPV	type 16 3	10 10	A*0201 VLLLQLIPHL A*0201 LLLQLIPHLL	134,37 10
1326	HPV	type 16 3		B*5102 IPLSLTHL	330,00 8
1327	HPV	type 16 3	11	B*2705 LQKLEGIL	200,00 8
1328	HPV	type 16 3	11	B*3901 LHFHHPLL	180,00 8
1329	HPV	type 16 3	11	B*5102 HPLLVHII	1452,00 8
1330	HPV	type 16 3	11	B*2705 FLWIHLLL	150,00 8
1331	HPV	type 16 3	11	A*0201 LLLHIIIPL	309,05 9
1332	HPV	type 16 3	11		180,00 9
1333	HPV	type 16 3	11	B*3901 LHIIIPLSL B*2705 HLYCSLQHL	150,00 9
1334	HPV	type 16 3	11		108,90 9
1335	HPV	type 16 3	11	B*5102 HPLLVHIIM	
1336	HPV	type 16 3	11	A3 LLVHIIMKK	135,00 9 200,00 9
1337	HPV	type 16 3	11	Cw*0401 KFLWIHLLL	
1338	HPV	type 16 3	11	A*0201 FLWIHLLDA	436,26 9 180,00 9
1339	HPV	type 16 3	11	B*3901 IHLLLAQTL	309,05 10
1340	HPV	type 16 3	11	A*0201 LLLLHIIIPL	
1341	HPV	type 16 3	11	Cw*0301 IIIPLSLTHL	100,00 10 100,00 10
1342	HPV	type 16 3	11	Cw*0301 LSLTHLYCSL B*3901 THLYCSLQHL	270,00 10
1343	HPV	type 16 3	11	· · · · · · · · · · · · · · · · · · ·	100,00 10
1344	HPV	type 16 3	11	B*2705 LQKLEGILHF	576,00 10
1345	HPV	type 16 3	11	B62 LQKLEGILHF A*0201 ILHFHHPLLV	118,24 10
1346	HPV	type 16 3	11		199,65 8
1347	HPV	type 16 3	12	B*5102 LALGTVEL	132,00 9
1348	HPV	type 16 3	12	B*5103 LALGTVELV	399,30 9
1349	HPV	type 16 3	12	B*5102 LALGTVELV	420,00 9
1350	HPV	type 16 3	12	A24 HYVLVVENL	400,00 9
1351	HPV	type 16 3	12	Cw*0401 HYVLVVENL	726,00 10
1352	HPV	type 16 3	12	B*5102 LALGTVELVI	145,20 10
1353	HPV	type 16 3	12	B*5103 LALGTVELVI	270,00 10
1354	HPV	type 16 3	12	B*3901 KHYVLVVENL	1452,00 8
1355	HPV	type 16 3	13	B*5102 YPLHLYQV	150,00 8
1356	HPV	type 16 3	13	B*2705 HLYQVIFL B*2705 LQIQQFLL	200,00 8
1357	HPV	type 16 3	13		100,00 8
1358	HPV	type 16 3	13	B*2705 QQFLLVVH B*5201 YPLHLYQVI	220,00 9
1359	HPV	type 16 3	13	B*5201 YPLHLYQVI B*5102 YPLHLYQVI	2904,00 9
1360	HPV	type 16 3	13 13	B*3901 LHLYQVIFL	270,00 9
1361	HPV	type 16 3		A24 LYQVIFLQI	126,00 9
1362	HPV	type 16 3	13 13	Cw*0401 IFLQIQQFL	200,00 9
1363	HPV	type 16 3 type 16 3	13	A*0201 FLQIQQFLL	569,95 9
1364	HPV		13	B*2705 QQFLLVVHT	100,00 9
1365	HPV	type 16 3 type 16 3	13	A*0201 LLVVHTIFL	199,74 9
1366	HPV	type 16 3 type 16 3	13	A24 LYPLHLYQVI	108,00 10
			4.4	ma birmaxçu	
1367	HPV		13	A*O2O1 VIRLOTOORI.	•
1368	HPV	type 16 3	13	A*0201 VIFLQIQQFL	101,62 10
1368 1369	HPV HPV	type 16 3 type 16 3	13	Cw*0401 IFLQIQQFLL	101,62 10 200,00 10
1368 1369 1370	HPV HPV HPV	type 16 3 type 16 3 type 16 3	13 13	Cw*0401 IFLQIQQFLL A*0201 FLQIQQFLLV	101,62 10 200,00 10 607,88 10
1368 1369 1370 1371	HPV HPV HPV	type 16 3 type 16 3 type 16 3 type 16 3	13 13 13	Cw*0401 IFLQIQQFLLV A*0201 FLQIQQFLLV B*5201 LQIQQFLLVV	101,62 10 200,00 10 607,88 10 495,00 10
1368 1369 1370 1371 1372	HPV HPV HPV HPV	type 16 3 type 16 3 type 16 3 type 16 3 type 16 3	13 13 13 13	Cw*0401 IFLQIQQFLL A*0201 FLQIQQFLLV B*5201 LQIQQFLLVV B*2705 QQFLLVVHTI	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV	type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3	13 13 13 13 13	Cw*0401 IFLQIQQFLL A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVV B*2705 QQFLLVVHTI B*5201 QQFLLVVHTI	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3	13 13 13 13 13	Cw*0401 IFLQIQQFLL A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVV B*2705 QQFLLVVHTI B*5201 QQFLLVVHTI Cw*0401 QFLLVVHTIF	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3	13 13 13 13 13 13 - 13	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI B*5201 QQFLLVVHTIF CW*0401 QFLLVVHTIF A*0201 FLLVVHTIFL	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 100,00 10 1999,73 10
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 - 13 - 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI B*5201 QQFLLVVHTIF CW*0401 QFLLVVHTIF A*0201 FLLVVHTIFL B*2705 ARTNIYYH	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3	13 13 13 13 13 13 13 13 14 14	Cw*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVV B*2705 QQFLLVVHTI B*5201 QQFLLVVHTI	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 - 13 - 14	Cw*0401 IFLQIQQFLL A*0201 FLQIQQFLLV B*5201 LQIQQFLLVV B*2705 QQFLLVVHTI B*5201 QQFLLVVHTI	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 100,00 10 1999,73 10 200,00 8 200,00 8
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 13 14 14 14	Cw*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVV B*2705 QQFLLVVHTI B*5201 QQFLLVVHTI Cw*0401 QFLLVVHTIF A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KFNNNKIL	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 100,00 10 1999,73 10 200,00 8 200,00 8 121,00 8
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3	13 13 13 13 13 13 13 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIF A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPINNKIL B*5201 LQYRVFRI B*2705 YRVFRIHL	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 150,00 8
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3	13 13 13 13 13 - 13 - 14 14 14 14 14	Cw*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI Cw*0401 QFLLVVHTIF A*0201 FLLVVHTIFF B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNNKIL B*5201 LQYRVFRI B*5205 KPVFRIHL B*5102 NPDTQRLV	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 100,00 10 1999,73 10 200,00 8 201,00 8 150,00 8 200,00 8
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3	13 13 13 13 13 13 13 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIF A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNNKIL B*5201 LQYRVFRI B*5201 LQYRVFRI B*5102 NPDTQRLV B*5102 NPDTQRLV B*5705 QRLVWACV	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 2000,00 8
1368 1369 1370 1371 1372 1373 -1374 1375 1376 1377 1378 1379 1360 1381 1382 1383	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3 type 16 3	13 13 13 13 13 13 13 14 14 14 14 14 14 14	Cw*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI Cw*0401 QFLLVVHTIF A*0201 FLLVVHTIFF B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNNKIL B*5201 LQYRVFRI B*5205 KPVFRIHL B*5102 NPDTQRLV	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 120,00 8 600,00 8
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 13 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVV B*2705 QQFLLVVHTI B*5201 QQFLLVVHTIF CW*0401 QFLLVVHTIF A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPINNKIL B*5201 LQYRVFRI B*5201 LQYRVFRI B*5102 NPDTQRLV B*5102 QRLVWACV B*5102 WACVGVEV B*5102 WACVGVEV B*2705 GRGQPLGV	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 121,00 8 600,00 8 121,00 8
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIF A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNNKIL B*5101 LQYRVFRI B*5102 NPDTQRLV B*5102 NPDTQRLV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 KQTQLCLI	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 100,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 150,00 8 2000,00 8 121,00 8 600,00 8
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIF A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNKIL B*5101 LQYRVFRI B*5102 KPNNKIL B*5102 NPDTQRLV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 GRGQFLGV B*2705 GRGQFLGV B*2705 GRQCLGUI B*2705 KQTQLCUI B*5102 SPCTNVAV	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 150,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KFNNNKIL B*5102 KFNNKIL B*5201 LQYRVFRI B*2705 YRVFRIHL B*5102 NPDTQRLV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 B*2705 GRQQPLGV B*2705 RQQPLGV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 NPGDCPPL	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 150,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIF A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNKIL B*5101 LQYRVFRI B*5102 KPNNKIL B*5102 NPDTQRLV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 GRGQFLGV B*2705 GRGQFLGV B*2705 GRQCLGUI B*2705 KQTQLCUI B*5102 SPCTNVAV	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 100,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 150,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIF A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNNKIL B*5102 KPNNNKIL B*5101 LQYRVFRI B*5102 NPDTQRLV B*2705 QRLVWACV B*5102 WACVGEVEV B*2705 GRGQPLGV B*2705 KQTQLCLI B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 YPDYIKMV	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 2000,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI E*5201 QQFLLVVHTIF A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNNKIL B*5101 LQYRVFRI B*5102 NPDTQRLV B*5102 NPDTQRLV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 NPGDFQFLV B*5102 NPGDFQFLV B*5102 NPGDFQFLV B*5102 NPGDFQFLV B*5102 NPGDFPL B*5102 NPGDFPL B*5102 NPGDFPL B*5102 YPDYIKMV B*2705 LRREQMFV	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 150,00 8 2000,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8
1368 1369 1370 1371 1372 1373 	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNKIL B*5201 LQYRVFRI B*5201 LQYRVFRI B*5102 NPDTQRLV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 RGQPLGV B*5102 NPGDCPPL B*5102 RFGDCPPL B*5102 RFGDCPPL B*5102 RFGDCPPL B*5102 RREQMFVR	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 100,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 120,00 8 120,00 8 121,00 8 600,00 8 120,00 8 120,00 8 120,00 8 120,00 8 120,00 8 120,00 8 120,00 8 120,00 8 120,00 8 120,00 8 120,00 8 120,00 8 120,00 8 120,00 8 120,00 8 120,00 8 120,00 8
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHI B*5201 QQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KFNNKIL B*5201 LQYRVFRI B*5102 NPDTQRLV B*5102 NPDTQRLV B*5102 NPDTQRLV B*5102 NPDTQRLV B*5102 NPDTQRLV B*5102 NPDTQRLV B*5102 NPDTQRLV B*5102 NPCTQRLV B*5102 NPCTQRLV B*5102 NPCTQRLV B*5102 NPCTQRLV B*5102 SRCQPLGV B*5102 SPCTNVAV B*5102 NPGDCPPL B*5102 NPGDCPPL B*5102 LREQMFVR B*2705 RREQMFVR B*2705 RREQMFVR B*2705 RREQMFVR	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 150,00 8 200,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8
1368 1369 1370 1371 1372 1373 1375 1376 1377 1378 1379 1360 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QCFLLVVHTI B*5201 QCFLLVVHTIF	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 120,00 8 200,00 8 200,00 8 121,00 8 2000,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPINNKIL B*5201 LQYRVFRI B*5102 KPINNKIL B*5201 LQYRVFRI B*5102 WPTQRLV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*2705 GRGQFLGV B*2705 GRGQPLGV B*2705 GRGQPLGV B*2705 GRGPLGV B*2705 KQTLCILI B*5102 SPCTNVAV B*5102 MPGDCPPL B*5102 SPCTNVAV B*5102 KREQMFVR B*2705 LRREQMFV B*2705 RREQMFVR B*2705 RREQMFVR B*2705 QMFVHILF B*2705 QRIFIKPY B*2705 QRIFIKPY B*2705 QRAQGHNN	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 2000,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 125,00 8 100,00 8 200,00 8 200,00 8
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNKIL B*5102 KPNNKIL B*5101 LQYRVFRI B*5102 NPDTQRLV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 FREQMFVR B*2705 RGQPLGV B*2705 RGQPLGV B*2705 RGQPLGV B*2705 RGQPLGV B*5102 SPCTNVAV B*5102 NPGDCPPL B*5102 FREQMFVR B*2705 RREQMFVR B*2705 RREQMFVR B*2705 RREQMFVR B*2705 RACQGINN B*2705 RACQGINN B*2705 RACQGINN B*2705 RACQGINN B*2705 RACQGINN B*2705 RACQGINN B*2705 RACQGINN	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 150,00 8 200,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 125,00 8 200,00 8 200,00 8
1368 1369 1370 1371 1372 1373 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QCFLLVVHTI B*5201 QCFLLVVHTIF	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 2000,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 125,00 8 100,00 8 200,00 8 200,00 8
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIFL A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPINNKIL B*5201 LQYRVFRI B*5102 NPDTQRLV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 FQRLWACV B*5102 FQRLWACV B*5102 FQRLWACV B*2705 GRGQFLGV B*2705 GRGQFLGV B*2705 RYPTAHL B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 FGRDCPPL B*5102 FGRDCPPL B*5102 FGRDFVRV B*2705 RREQMFVR	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 150,00 8 2000,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 125,00 8 100,00 8 200,00 8 200,00 8 125,00 8 100,00 8 125,00 8 100,00 8 125,00 8 100,00 8 125,00 8 100,00 8 100,00 8 100,00 8
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIFL A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPINNKIL B*5201 LQYRVFRI B*5102 NPDTQRLV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 FQRLWACV B*5102 FQRLWACV B*5102 FQRLWACV B*2705 GRGQFLGV B*2705 GRGQFLGV B*2705 RYPTAHL B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 FGRDCPPL B*5102 FGRDCPPL B*5102 FGRDFVRV B*2705 RREQMFVR	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 125,00 8 100,00 8 200,00 8 200,00 8 200,00 8 200,00 8 200,00 8 200,00 8 200,00 8 200,00 8 200,00 8 200,00 8 200,00 8
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIFL A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNNKIL B*5102 KPNNNKIL B*5102 WPDTQRLV B*2705 QRLVWACV B*2705 QRLVWACV B*2705 QRLVWACV B*2705 QRQPLGV B*2705 GRQPLGV B*2705 KQTQLCLI B*5102 SPCTNVAV B*5102 NPGCPPL B*5102 PPCTNVAV B*5102 SPCTNVAV B*2705 LRREQMFV B*2705 RREQMFVR B*2705 AQIFNKPY B*2705 QRAQCHNN B*2705 TRSTNMSL B*3901 RHGEEYDL B*3901 RHGEEYDL B*2705 FQLCKLTL B*5102 TADVWTYI B*5102 TADVWTYI B*5102 TADVWTYI B*5102 TADVWTYI B*5102 TADVWTYI B*5102 QPPPGGTL	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 2000,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 120,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 100,00 8 100,00 8
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI B*5201 QQFLLVVHTI CW*0401 QFLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPINNKIL B*5201 LQYRVFRI B*5102 KPINNKIL B*5201 LQYRVFRI B*5102 WAPTIFLV B*5102 WAPTIFLV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*2705 GRGQFLGV B*2705 GRQPLGV B*2705 GRGPLGV B*2705 CREQMFVR B*2705 REQMFVR B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 RFGDCPPL B*5102 SPCTNVAV B*5102 RFGDCPPL B*5102 SPCTNVAV B*2705 RREQMFVR B*2705 RREQMFVR B*2705 RREQMFVR B*2705 RREQMFVR B*2705 RREQMFVR B*2705 QRAQCHNN B*2705 TRSTMMSL B*3901 RHGEEYDL B*5102 TADVMTYI B*5102 QPPGGTL B*5102 TADVMTYI B*5102 TADVMTYI B*5102 TADVMTYI B*5102 PPFGGTL B*5102 TADVMTYI B*5102 QPPFGGTL B*5102 TADVMTYI B*5102 QPPFGGTL B*5102 TADVMTYI B*5102 QPPFGGTL	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 120,00 8 200,00 8 121,00 8 2000,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 125,00 8 100,00 8 200,00 8 100,00 8 100,00 8 200,00 8 100,00 8
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI B*5201 QQFLLVVHTIF	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 120,00 8 242,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QCFLLVVHTI B*5201 QCFLLVVHTIF A*0201 FLLVVHTIFL A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNNKIL B*5102 KPNNNKIL B*5102 NPDTQRLV B*2705 QRLVWACV B*5102 WACVGVEV B*2705 KQTQLCLI B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*2705 RREQMFVR B*2705 RREQMFVR B*2705 QRAQCHNN B*2705 QRAQCHNN B*2705 QRAQCHNN B*2705 TRSTNMSL B*3901 RHGEEYDL B*5102 TRSTNMSL B*3901 RHGEEYDL B*5102 TRSTNMSL B*3901 RHGEEYDL B*5102 TADVMTYI B*5102 QPPPGGTL B*5102 TADVMTYI B*5102 TADVMTYI B*5102 TADVMTYI B*5102 TADVMTYI B*5102 TADVMTYI B*5102 TADVMTYI B*5102 TADVMTYI B*5103 APKEDDPL	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 200,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 120,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8 100,00 8
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QQFLLVVHTI E*5201 QQFLLVVHTI CW*0401 QFLLVVHTIFL A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNNKIL B*5101 LQYRVFRI B*5102 NPDTQRLV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*5102 WACVGVEV B*2705 GRGQPLGV B*2705 GRGQPLGV B*2705 KQTQLCLI B*5102 SPCTNVAV B*5102 NPGDCPPL B*5102 SPCTNVAV B*5102 NPGDCPPL B*5102 PGDYLKNV B*2705 REQMFVR B*2705 REQMFVR B*2705 REQMFVR B*2705 QAGGHNN B*2705 QAGGHNN B*2705 QAGGHNN B*2705 LQFIFQLC B*3901 RHGEEYDL B*3901 RHGEEYDL B*5102 TADVMTYI B*5102 QPPFGGTL B*5102 TADVMTYI B*5102 PPFGGTL B*5102 PPFGGTL B*2705 TQAIACQK B*2705 TQAIACQK B*2705 TQAIACQK B*3501 APKEDDPL B*5102 FPLGRKFL	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 120,00 8 242,00 8 100,00 8 200,00 8 200,00 8 125,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 10,00 8 200,00 8 10,00 8 200,00 8 10,00 8 200,00 8 10,00 8 200,00 8 10,00 8 200,00 8 110,00 8 200,00 8 110,00 8 200,00 8 110,00 8 200,00 8 110,00 8 200,00 8
1368 1369 1370 1371 1372 1373	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 3 type 16 3	13 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	CW*0401 IFLQIQQFLLV A*0201 FLQIQQFLLVV B*5201 LQIQQFLLVVHTI B*5201 QCFLLVVHTI B*5201 QCFLLVVHTIF A*0201 FLLVVHTIFL A*0201 FLLVVHTIFL B*2705 ARTNIYYH B*2705 SRLLAVGH B*5102 KPNNNKIL B*5102 KPNNNKIL B*5102 NPDTQRLV B*2705 QRLVWACV B*5102 WACVGVEV B*2705 KQTQLCLI B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*5102 SPCTNVAV B*2705 RREQMFVR B*2705 RREQMFVR B*2705 QRAQCHNN B*2705 QRAQCHNN B*2705 QRAQCHNN B*2705 TRSTNMSL B*3901 RHGEEYDL B*5102 TRSTNMSL B*3901 RHGEEYDL B*5102 TRSTNMSL B*3901 RHGEEYDL B*5102 TADVMTYI B*5102 QPPPGGTL B*5102 TADVMTYI B*5102 TADVMTYI B*5102 TADVMTYI B*5102 TADVMTYI B*5102 TADVMTYI B*5102 TADVMTYI B*5102 TADVMTYI B*5103 APKEDDPL	101,62 10 200,00 10 607,88 10 495,00 10 300,00 10 120,00 10 120,00 10 1999,73 10 200,00 8 200,00 8 121,00 8 600,00 8 121,00 8 600,00 8 121,00 8 600,00 8 120,00 8 242,00 8 100,00 8 200,00 8 200,00 8 125,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 100,00 8 200,00 8 10,00 8 200,00 8 10,00 8 200,00 8 10,00 8 200,00 8 10,00 8 200,00 8 10,00 8 200,00 8 110,00 8 200,00 8 110,00 8 200,00 8 110,00 8 200,00 8 110,00 8 200,00 8

	*****	h 16 2	1.4	100	VA V DV DMT	160,00 8
1406	HPV	type 16 3	14	B8	KAKPKFTL	
1407	HPV	type 16 3	14	B*2705	KRKATPTT	600,00 8
1408	HPV	type 16 3	14	A*0201	LMQVTFIYI	133,86 9
1409	HPV	type 16 3	14	B*2705	MQVTFIYIL	200,00 9
						180,00 9
1410	HPV	type 16 3	14	B*3901	YHIFFQMSL	•
1411	HPV	type 16 3	14	Cw*0401	IFFQMSLWL	220,00 9
1412	HPV	type 16 3	14	Cw*0401	LPSEATVYL	105,60 9
1413	HPV	type 16 3	14	B*5102	LPSEATVYL	133,10 9
						110,00 9
1414	HPV	type 16 3	14	B*5103	EATVYLPPV	
1415	HPV	type 16 3	14	B*5102	EATVYLPPV	100,00 9
1416	HPV	type 16 3	14	B*5102	LPPVPVSKV	400,00 9
1417	HPV	type 16 3	14	B*2705	ARTNIYYHA	200,00 9
			14	A24	YYHAGTSRL	200,00 9
1418	HPV	type 16 3				
1419	HPV	type 16 3	14	Cw*0401	YYHAGTSRL	300,00 9
1420	HPV	type 16 3	14	B*5102	KPNNNKILV	242,00 9
1421	HPV	type 16 3	14	Cw*0301	ILVPKVSGL	120,00 9
					VPKVSGLQY	120,00 9
1422	HPV	type 16 3	14	B*3501		•
1423	HPV	type 16 3	14	A*0201	GLQYRVFRI	139,17 9
1424	HPV	type 16 3	14	A24	QYRVFRIHL	200,00 9
1425	HPV	type 16 3	14	Cw*0401	QYRVFRIHL	220,00 9
				B*2705	FRIHLPDPN	200,00 9
1426	HPV	type 16 3	14			•
1427	HPV	type 16 3	14	Cw*0401	KFGFPDTSF	110,00 9
1428	HPV	type 16 3	14	A24	FYNPDTQRL	432,00 9
1429	HPV	type 16 3	14	Cw*0401	FYNPDTQRL	240,00 9
				B60	VEVGRGQPL	320,00 9
1430	HPV	type 16 3	14			
1431	HPV	type 16 3	14	B*5103	SAYAANAGV	·
1432	HPV	type 16 3	14	B*5102	SAYAANAGV	550,00 9
1433	HPV	type 16 3	14	B*5102	AGVDNRECI	290,40 9
			14	B*2702	NRECISMDY	200,00 9
1434	HPV	type 16 3				·
1435	HPV	type 16 3	14	B*2705	NRECISMDY	
1436	HPV	type 16 3	14	A24	DYKQTQLCL	200,00 9
1437	HPV	type 16 3	14	Cw*0401	DYKQTQLCL	240,00 9
			14	B*2705	TQLCLIGCK	200,00 9
1438	HPV					·
1439	HPV	type 16 3	14	B*3701	GDCPPLELI	
1440	HPV	type 16 3	14	B*5102	VPLDICTSI	1200,00 9
1441	HPV	type 16 3	14	Cw*0301	CKYPDYIKM	125,00 9
1442	HPV	type 16 3	14	Cw*0401	FFYLRREQM	110,00 9
			14	A24	FYLRREQMF	180,00 9
1443	HPV	type 16 3				•
1444	HPV	type 16 3	14	Cw*0401	FYLRREQMF	· · · · · · · · · · · · · · · · · · ·
1445	HPV	type 16 3	14	A*0201	YLRREQMFV	133,73 9
1446	HPV	type 16 3	1 <b>4</b>	B*2705	LRREQMFVR	1000,00 9
1447	HPV	type 16 3	14	B*2705	RREQMFVRH	600,00 9
			14	B60	REOMFVRHL	160,00 9
1448	HPV					200,00 9
1449	HPV	type 16 3	14	B*2705	NRAGTVGEN	
1450	HPV	type 16 3	14	B*5103	RAGTVGENV	121,00 9
1451	HPV	type 16 3	14	B*5102	RAGTVGENV	133,10 9
1452	HPV	type 16 3	14	A68.1	NVPDDLYIK	120,00 9
			14	Cw*0401	YFPTPSGSM	110,00 9
1453	HPV	type 16 3				•
1454	HPV	type 16 3	14	B*5102	FPTPSGSMV	•
1455	HPV	type 16 3	14	B*5103	RAQGHNNGI	110,00 9
1456	HPV	type 16 3	14	B*5102	RAQGHNNGI	242,00 9
1457	HPV	type 16 3	14	A68.1	FVTVVDTTR	300,00 9
			14	B*2705	TRSTNMSLC	200,00 9
1458	HPV					
1459	HPV	type 16 3	14	B*2705	LRHGEEYDL	•
1460	HPV	type 16 3	14	B*2705	LQFIFQLCK	1000,00 9
1461	HPV	type 16 3	14	Cw*0401	IFQLCKITL	200,00 9
	HPV		14	B*2705	LQPPPGGTL	200,00 9
1462						100,00 9
1463	HPV	type 16 3	14	B*2702	YRFVTQAIA	•
1464	HPV	type_16_3.	14	B*2705	YRFVTQAIA	1000,00 9
1465	HPV	type 16 3	14	A24	KYTFWEVNL	400,00 9
1466	HPV	type 16 3	14	Cw*0401	KYTFWEVNL	200,00 9
			14	Cw*0401		200,00 9
1467	HPV					
1468	HPV	type 16 3	14	B62	DQFPLGRKF	
1469	HPV	type 16 3	14	Cw*0401		200,00 9
1470	HPV	type 16 3	14	B*5102	FPLGRKFLL	660,00 9
1471	HPV	type 16 3	14	B*2705	KRKATPTTS	600,00 9
			14	B8	TAKRKKRKL	320,00 9
1472	HPV	type 16 3				•
1473	HPV	type 16 3	14	Cw*0401		
1474	HPV	type 16 3	14	A24	VYHIFFQMSL	200,00 10
1475	HPV	type 16 3	14	A*0201	SLWLPSEATV	577,28 10
		type 16 3	14	A*0201	WLPSEATVYL	540,47 10
1476	HPV			A*0201		735,86 10
1477	HPV	type 16 3	14		YLPPVPVSKV	
1478	VHPV	type 16 3	14	B*5102	LPPVPVSKVV	242,00 10
1479	HPV	type 16 3	14	B*5201	LPPVPVSKVV	435,60 10
1480	HPV	type 16 3	14	A68.1	VVSTDEYVAR	200,00 10
			14	Cw*0401		200,00 10
1481	HPV					
1482	HPV	type 16 3	14	A24	IYYHAGTSRL	
1483	HPV	type 16 3	14	Cw*0401		360,00 10
1484	VYH	type 16 3	14	A24	YYHAGTSRLL	200,00 10
1485		type 16 3	14	B*5102	HAGTSRLLAV	110,00 10
	HPV					121,00 10
1486	HPV	type 16 3	14	B*5103	HAGTSRLLAV	
1487	HPV	type 16 3	14	B*2702	SRLLAVGHPY	200,00 10
1488	HPV	type 16 3	14	B*2705	SRLLAVGHPY	1000,00 10
1489	HPV	type 16 3	14	B*5102	LAVGHPYFPI	660,00 10
			14	B*5103	LAVGHPYFPI	110,00 10
1490	HPV					
1491	HPV	type 16 3	14	A68.1	AVGHPYFPIK	240,00 10
1492	HPV	type 16 3	14	A*0205	KILVPKVSGL	126,00 10
1493	HPV	type 16 3	14	B*5102	SGLQYRVFRI	528,00 10
1494	HPV	type 16 3	14	B*2705	LQYRVFRIHL	1000,00 10
			14	B*2705	FRIHLPDPNK	2000,00 10
1495	HPV	type 16 3	T.47	2775 ط	TATTITEDEMI	2000,00 10

- 190 -

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		b 16 D	14	C++* 0.4 0.1	SFYNPDTQRL	200,00 10
1496	HPV	type 16 3 type 16 3	14	B*2705	QRLVWACVGV	600,00 10
1497	HPV HPV	type 16 3 type 16 3	14	B*2705	GRGQPLGVGI	600,00 10
1498 1499	HPV	type 16 3	14	B*5102	NAGVDNRECI	242,00 10
1500	HPV	type 16 3	14	B*5103	NAGVDNRECI	121,00 10
1501	HPV	type 16 3	14	B*2705	NRECISMDYK	2000,00 10
1502	HPV	type 16 3	14	в7	NPGDCPPLEL	120,00 10
1503	HPV	type 16 3	14	B*5102	NPGDCPPLEL	100,00 10
1504	HPV	type 16 3	14	B*5102	CPPLELINTV	266,20 10
1505	HPV	type 16 3	14	B*5102	PPLELINTVI	145,20 10
1506	HPV	type 16 3	14		GFGAMDFTTL	200,00 10 200,00 10
1507	HPV	type 16 3	14	B*2705	LQANKSEVPL VSEPYGDSLF	200,00 10 135,00 10
1508	HPV	type 16 3 type 16 3	14 14	A1 Cw*0401	LFFYLRREQM	110,00 10
1509	HPV HPV	type 16 3 type 16 3	14		FFYLRREQMF	110,00 10
1510 1511	HPV	type 16 3	14	B*2705	LRREQMFVRH	200,00 10
1512	HPV	type 16 3	14	B*2705	RREQMFVRHL	1800,00 10
1513	HPV	type 16 3	14	B*2705	QMFVRHLFNR	125,00 10
1514	HPV	type 16 3	14	B*2705	VRHLFNRAGT	200,00 10
1515	HPV	type 16 3	14	B*2705	NRAGTVGENV	600,00 10
1516	HPV	type 16 3	14		NYFPTPSGSM	132,00 10
1517	HPV	type 16 3	14	B*2705	AQIFNKPYWL	200,00 10
1518	HPV	type 16 3	14	B*2705	QRAQGHNNGI	600,00 10 200,00 10
1519	HPV	type 16 3	14	B*2705	TRSTNMSLCA	200,00 10 225,00 10
1520	HPV	type 16 3	14	B*2705 Cw*0401	KEYLRHGEEY EYDLQFIFQL	600,00 10
1521	HPV	type 16 3 type 16 3	14 14	A24	EYDLOFIFOL	200,00 10
1522 1523	HPV	type 16 3 type 16 3	14	B*2705	LQFIFQLCKI	300,00 10
1524	HPV	type 16 3	14	A*0201	TLTADVMTYI	131,97 10
1525	HPV	type 16 3	14	A*0201	TILEDWNFGL	258,44 10
1526	HPV	type 16 3	14	B*2702	YRFVTQAIAC	100,00 10
1527	HPV	type 16 3	14	B*2705	YRFVTQAIAC	1000,00 10
1528	HPV	type 16 3	14	A68.1	FVTQAIACQK	120,00 10
1529	HPV	type 16 3	14	B*2705	COKHTPPAPK	200,00 10
1530	HPV	type 16 3	14	Cw*0401		220,00 10 2000,00 10
1531	HPV	type 16 3	14	B*2705	GRKFLLQAGL	2000,00 10 600,00 10
1532	HPV	type 16 3 type 16 3	14 15	B*2705	KRKATPTTSS FFTLHYVQL	220,00 9
1533	HPV HPV	type 16 3 type 16 3	15	A*0201	AAATTUHAA	153,97 9
1534 1535	HPV	type 16 3	15	A*0201	LLNHYVHCV	271,95 9
1536	HPV	type 16 3	15	A*0201	CLPTIPLFFT	546,75 10
1537	HPV	type 16 3	15	B*5102	LPTIPLFFTL	110,00 10
1538	HPV	type 16 3	15	B*5102	IPLFFTLHYV	726,00 10
1539	HPV	type 16 3	15		LFFTLHYVQL	220,00 10
1540	HPV	type 16 3	15		FFTLHYVQLL	400,00 10
1541	HPV	type 16 3	15	A*0201	QLLNHYVHCV	591,89 10 132,00 8
1542	HPV	type 16 3	2	B*5102	MGIHMLYVI MGIHMLYVI	272,25 9
1543	HPV	type 16 3	2 2	B*5201 B*5102	MGIHMLYVI	264,00 9
1544 1545	HPV HPV	type 16 3 type 16 3	3	B*2705	CRGCSGKK	600,00 8
1545	HPV	type 16 3	3	A68.1	MVLCRGCSGK	240,00 10
1547	HPV	type 16 3	3	B*2705	CRGCSGKKNR	300,00 10
1548	HPV	type 16 3	4	B*5102	YGVSFSEL	132,00 8
1549	HPV	type 16 3	4	B*2705	VRPFKSNK	2000,00 8
1550	HPV	type 16 3	4	B*5102	TPSIADSI	400,00 8
1551	HPV	type 16 3	4	B*2705	TÖÖXCLAP	200,00 8
1552	HPV	type 16 3	4	B*2705	QQYCLYLH	100,00 8 100,00 8
1553	HPV	type 16 3	4 4	B*5102	LACSWGMV VRYKCGKN	100,00 8 300,00 8
 1554	HPV HPV	type 16_3 type 16_3	4	B*2705	NRETIEKL	600,00 8
1555 1556	HPV		4	B*2705	LRSTAAAL	2000,00 8
1557	HPV	type 16 3 type 16 3	$\tilde{4}$	B*2705	QRQTVLQH	200,00 8
1558	HPV	type 16 3	4	B*2705	SQMVQWAY	100,00 8
1559	HPV	type 16 3	4	B*5102	WAYDNDIV	550,00 8
1560	HPV	type 16 3	4	B*5102	IAYKYAQL	302,50 8
1561	HPV	type 16 3	4	B*2705	KRAEKKQM	1800,00 .8
1562	HPV	type 16 3	4	B*2705	KQIVMFLR	300,00 8 5000,00 8
1563	HPV	type 16 3	<u>4</u> 4	B*2705 B*2705	LRYQGVEF KRFLQGIP	300,00 8
1564	HPV	type 16 3	4	B*2705	LQGSVICF	100,00 8
1565	HPV HPV	type 16 3 type 16 3	4	B*3901	SHFWLQPL	180,00 8
1566 1567	HPV	type 16 3	4	B*2705	LQPLADAK	200,00 8
1568	HPV	type 16 3	4	B*5102	QPLADAKI	1320,00 8
1569	HPV	type 16 3	4	B*2705	MNAIDDNP	100,00 B
1570	HPV	type 16 3	4	B*2705	LRNALDGN	200,00 B
1571	HPV	type 16 3	4	B*5102		363,00 8
1572	HPV	type 16 3	4	B*2705	HRPLVQLK	2000,00 8
1573	$^{\mathrm{HPV}}$	type 16 3	4	B*2705		200,00 8
1574	HPV	type 16 3	4	B*2705		1000,00 8 665,50 8
1575	HPV	type 16 3	4	B*5102		665,50 8 1000,00 8
1576 1577	HPV	type 16 3	4 4	B*2705 B*2705		200,00 8
1577 1578	HPV	type 16 3 type 16 3	4	B*2705		150,00 8
1578	HPV HPV	type 16 3	4	B*2705		200,00 9
1580	HPV	type 10 3	4	A1	ETETPCSQY	112,50 9
1581	HPV	type 16 3	4	B*5102		264,00 9
1582	HPV	type 16 3	4	B*2705		200,00 9
1583	HPV	type 16 3	4	B*5102		798,60 9
1584	HPV	type 16 3	4	A68.1	NVLKTSNAK	240,00 9
1585	HPV	type 16 3	4	A*0201	AMLAKFKEL	108,46 9

- 191 -

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		1 16 2	4	Cw*0301 A	MLAKFKEL	120,00 9
1586	HPV	type 16 3	<u>4</u> 4		YGVSFSEL	264,00 9
1587	HPV	type 16 3	4		YGVSFSEL	200,00 9
1588	HPV	type 16 3 type 16 3	4		GVSFSELV	264,00 9
1589	HPV	type 16 3	4		VSFSELVR	300,00 9
1590 1591	HPV HPV	type 16 3	4		FSELVRPF	240,00 9
1592	HPV	type 16 3	4		VRPFKSNK	180,00 9
1593	HPV	type 16 3	4		RPFKSNKS	200,00 9
1594	HPV	type 16 3	4		AFGLTPSI	145,20 9
1595	HPV	type 16 3	4	B*5102 A	AFGLTPSI	1210,00 9
1596	HPV	type 16 3	4	A*0201 L	LQQYCLYL	199,74 9
1597	HPV	type 16 3	4	B*2705 Q	<b>GACTATHI</b>	300,00 9
1598	HPV	type 16 3	4	B*5201 Q	QYCLYLHI	100,00 9
1599	HPV	type 16 3	4	A*0201 C	LYLHIQSL	157,23 9
1600	HPV	type 16 3	4	B*2705 C	LYLHIQSL	150,00 9
1601	HPV	type 16 3	4	B*5103 L	ACSWGMVV	110,00 9
1602	HPV	type 16 3	4		ACSWGMVV	100,00 9
1603	HPV	type 16 3	4		VLLLVRYK	240,00 9
1604	HPV	type 16 3	4		RYKCGKNR	1500,00 9
1605	HPV	tỳpe 16 3	4		RETIEKLL	600,00 9
1606	HPV	type 16 3	4		TIEKLLSK	180,00 9
1607	HPV	type 16 3	4		EKLLSKLL	176,00 9
1608	HPV	type 16 3	4		LLSKLLCV	2071,61 9
1609	HPV	type 16 3	4		RSTAAALY	200,00 9 1000,00 9
1610	HPV	type 16 3	4		RSTAAALY	
1611	HPV	type 16 3	4		RSTAAALYW	
1612	HPV	type 16 3	4		GISNISEV	145,20 9 200,00 9
1613	HPV	type 16 3	4		ROTVLOHS	300,00 9
1614	HPV	type 16 3	4		ROTVLOHSF	160,00 9
1615	HPV	type 16 3	4		QTVLQHSF	240,00 9
1616	HPV	type 16 3	4		SFNDCTFEL YQWAYDNDI	300,00 9
1617	HPV	type 16 3	4		VDDSEIAY	125,00 9
1618	HPV	type 16 3	<u>4</u> 4		ATMCRHYKR	100,00 9
1619	HPV	type 16 3			RHYKRAEK	2000,00 9
1620	HPV	type 16 3	4 4		KRAEKKQMS	600,00 9
1621	HPV	type 16 3	4		KOMSMSOWI	180,00 9
1622	HPV	type 16 3 type 16 3	4		RVDDGGDWK	120,00 9
1623	HPV		4		KQIVMFLRY	300,00 9
1624	HPV	type 16 3 type 16 3	4		MFLRYQGV	473,94 9
1625	HPV HPV	type 10 3	4		FLRYQGVEF	144,00 9
1626 1627	HPV	type 16 3	4		LRYQGVEFM	100,00 9
1628	HPV	type 16 3	4		LRYQGVEFM	3000,00 9
1629	HPV	type 16 3	4		YQGVEFMSF	100,00 9
1630	HPV	type 16 3	4		YQGVEFMSF	160,00 9
1631	HPV	type 16 3	4	Cw*0401 I	EFMSFLTAL	400,00 9
1632	HPV	type 16 3	4	Cw*0401 S	SFLTALKRF	220,00 9
1633	HPV	type 16 3	4	A*0201 I	FLTALKRFL	108,09 9
1634	HPV	type 16 3	4	B*2705 1	KRFLQGIPK	30000,00
1635	HPV	type 16 3	4	B*5102	QGIPKKNCI	240,00 9
1636	HPV	type 16 3	4	A3 :	SLFGMSLMK	300,00 9
1637	HPV	type 16 3	4		SLFGMSLMK	150,00 9
1638	HPV	type 16 3	4		LFGMSLMKF	220,00 9
1639	HPV	type 16 3	4		LQGSVICFV	151,65 9
1640	HPV	type 16 3	4		SVICEVNSK	240,00 9 110,00 9
1641	HPV	type 16 3	4		CFVNSKSHF	•
1642	HPV	type 16 3	4		LRNALDGNL	
1643	HPV	type 16 3	4		LVSMDVKHR	300,00 9 200,00 9
1644	HPV	type 16 3	4		HRPLVQLKC VOLKCPPLL	200,00 9
1645	HPV	type 16 3	4		PPLLITSNI	145,20 9
1646	HPV	type 16 3	4 4		SRWPYLHNR	5000,00 9
1647	HPV	type 16 3 type 16 3	4		WPYLHNRLV	132,00 9
1648 1649	HPV HPV	type 16 3 type 16 3	4		WPYLHNRLV	1331,00 9
		type 16 3	4		KNWKSFFSR	150,00 9
1650 1651	HPV HPV	type 16 3	4		FFSRTWSRL	240,00 9
1652	HPV	type 16 3	4		SRTWSRLSL	100,00 9
1653	HPV	type 16 3	4		SRTWSRLSL	2000,00 9
1654	HPV	type 16 3	4		GRHETETPCS	200,00 10
1655	HPV	type 16 3	4		ERHTICQTPL	200,00 10
1656	HPV	type 16 3	4		TPLTNILNVL	330,00 10
1657	HPV	type 16 3	4		TPLTNILNVL	160,00 10
1658	HPV	type 16 3	4		AAMLAKFKEL	108,00 10
1659	HPV	type 16 3	4		AAMLAKFKEL	240,00 10
1660	HPV	type 16 3	4		LAKFKELYGV	100,00 10
1661	HPV	type 16 3	4		KFKELYGVSF	132,00 10
1662	HPV	type 16 3	4		ELYGVSFSEL	120,00 10
1663	HPV	type 16 3	4		KSNKSTCCDW	480,00 10
1664	HPV	type 16 3	4	B*5102	IAAFGLTPSI	220,00 10
1665	HPV	type 16 3	4	B*5103	IAAFGLTPSI	110,00 10
1666	HPV	type 16 3	4	A*0201	TLLQQYCLYL	434,72 10
1667	HPV	type 16 3	4		MVVLLLVRYK	240,00 10 200,00 10
1668	HPV	type 16 3	4	A68.1	LVRYKCGKNR	100,00 10
1669	HPV	type 16 3	4	B*2705	VRYKCGKNRE	200,00 10
1670	HPV		4	B*2705	NRETIEKLLS KLRSTAAALY	120,00 10
1671	HPV		4 4	B62 B*2702	LRSTAAALYW	100,00 10
1672	HPV		4	B*2702 B*2705	LRSTAAALYW	200,00 10
1673	HPV		4	B*5102	AALYWYKTGI	600,00 10
1674 1675	HPV		4	B*5102	AALYWYKTGI	132,00 10
1675	HPV	cline to 2	**	2 3203		, · · ·

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1676	HPV	type 16 3	4	B*5102 TPEW	VIQRQTV	133,10 10	
1676 1677	HPV	type 16 3	4		TVLQHSF	200,00 10	
1678	HPV	type 16 3	4		TVLQHSF	1000,00 10	
1679	HPV	type 16 3	4		SFNDCTF	100,00 10	
1680	HPV	type 16 3	4	B*2705 VQW	YYDNDIV	300,00 10	
1681	HPV	type 16 3	4	B*5201 VQWA	AYDNDIV	990,00 10	
1682	HPV	type 16 3	4	A68.1 IVDI	DSEIAYK	120,00 10	
1683	HPV	type 16 3	4		AYKYAQL	352,00 10	
1684	HPV	type 16 3	4		AYKYAQL	100,00 10	
1685	HPV	type 16 3	4		CATMCR	200,00 10	
1686	HPV	type 16 3	4		YKRAEKK	2000,00 10	
1687	HPV	type 16 3	4		RAEKKQM	100,00 10 1800,00 10	
1688	HPV	type 16 3	4		EKKOMSM	1800,00 10 600,00 10	
1689	HPV	type 16 3	4		SMSQWIK	500,00 10	
1690	HPV	type 16 3	4		IKYRCDR DDGGDWK	200,00 10	
1691	HPV	type 16 3	<u>4</u> 4		KQIVMFL	300,00 10	
1692	HPV	type 16 3 type 16 3	4		RYOGVEF	100,00 10	
1693	HPV HPV	type 16 3 type 16 3	4		QGVEFMS	1000,00 10	
1694 1695	HPV	type 16 3	4		GVEFMSF	110,00 10	
1696	HPV	type 16 3	4		GVEFMSF	360,00 10	
1697	HPV	type 16 3	4		VEFMSFL	478,93 10	
1698	HPV	type 16 3	4		VEFMSFL	200,00 10	
1699	HPV	type 16 3	4		MSFLTAL	150,00 10	
1700	HPV	type 16 3	4	B60 VEF	MSFLTAL	160,00 10	
1701	HPV	type 16 3	4	Cw*0401 SFL	TALKRFL	200,00 10	
1702	HPV	type 16 3	4	B*5102 TAL	KRFLQGI	726,00 10	
1703	HPV	type 16 3	4	B*5103 TAL	KRFLQGI	132,00 10	
1704	HPV	type 16 3	4		LQGIPKK	30000,00	10
1705	HPV	type 16 3	4		PKKNCIL	100,00 10	
1706	HPV	type 16 3	4		KNCILLY	120,00 10	
1707	HPV	type 16 3	4		GAANTGK	150,00 10 150,00 10	
1708	HPV	type 16 3	4		GAANTGK	•	
1709	HPV	type 16 3	4		MSLMKFL	240,00 10 200,00 10	
1710	HPV	type 16 3	4		QGSVICF	4047,23 10	
1711	HPV	type 16 3	4		GSVICFV SKSHFWL	274,29 10	
1712	HPV	type 16 3	4 4		VPCWNYI	220,00 10	
1713	HPV	type 16 3 type 16 3	4		VPCWNYI	121,00 10	
1714	HPV		4		ALDGNLV	600,00 10	
1715	HPV	type 16 3 type 16 3	4		LLITSNI	484,00 10	
1716 1717	HPV HPV	type 16 3	4		PYLHNRL	300,00 10	
1718	HPV	type 16 3	4		PYLHNRL	10000,00	10
1719	HPV	type 16 3	4		LHNRLVV	1210,00 10	
1720	HPV	type 16 3	4	B*5103 WPY	LHNRLVV	145,20 10	
1721	HPV	type 16 3	4	B*5201 WPY	LHNRLVV	300,00 10	
1722	HPV	type 16 3	4	A*0201 YLH	INRLVVFT	433,63 10	
1723	HPV	type 16 3	4		JVVFTFPN	200,00 10	
1724	HPV	type 16 3	4		FPNEFPF	100,00 10	
1725	HPV	type 16 3	4		FDENGNPV	2200,00 10	
1726	HPV	type 16 3	4		IGNPVYEL	320,00 10	
1727	HPV	type 16 3	4		SRTWSRL	240,00 10	
1728	HPV	type 16 3	4		WSRLSLH	200,00 10 177,57 10	
1729	HPV	type 16 3	5		LOGORNGI	177,57 10 1000,00 8	
1730	HPV	type 16 3	7 7		MALYK MALYKL	1000,00 9	
1731	HPV	type 16 3	7		KPDIKE	183,62 9	
1732	HPV	type 16 3 type 16 3	7	Cw*0301 YKI		100,00 9	
1733	HPV	type 16 3 type 16 3		B*5102 NAI		660,00 10	
1735	HPV	type 16 3	7		YKLDTYI	120,00 10	
1736	HPV	type 16 3	7	Cw*0401 LYF		240,00 10	
1737	HPV	type 16 3	7	A24 LYF	KLDTYIYL	200,00 10	
1738	HPV	type 16 3	9	B*3701 LD7	PASTTLL	200,00 9	
1739	HPV	type 16 3	9		CFLLCFV	100,00 9	
1740	HPV	type 16 3	9		CFLLCFV	100,00 9	
1741	HPV	type 16 3	9		LLCFVCF	100,00 9	
1742	HPV	type 16 3	9		LCFVCFC	4064,58 9	
1743	HPV	type 16 3	9		CFVCFCV	685,78 9 1495,72 10	
1744	HPV	type 16 3	9		ACFLLCFV	1495,72 10 6865,90 10	
1745	HPV	type 16 3	9		LCFVCFCV	100,00 8	
1746	HPV	type 16 3	11 11		HLYLPF QMYQDL	220,00 8	
1747	HPV	type 16 3 type 16 3	11		AÖDLAF	250,00 8	
1748	HPV		11		DPAPPP	200,00 8	
1749 1750	HPV	type 16 3 type 16 3	11		LIPHLL	200,00 8	
1751	HPV	type 16 3	11		AHÖHTAP	199,74 9	
1752	HPV	type 16 3	11		QMYQDLV	440,00 9	
1753	HPV	type 16 3	11		YQDLVLL	113,55 9	
1754	HPV	type 16 3	11		YQDLVLL	250,00 9	
1755	HPV	type 16 3	11		<b>ODPAPP</b>	432,00 9	
1756	HPV	type 16 3	11	Cw*0401 MY		480,00 9	
1757	HPV	type 16 3	11	A*0201 LL	LQLIPHL	309,05 9	
1758	HPV	type 16 3	11	B*2705 LQ	PIBHTFA	100,00 9	
1759	HPV	type 16 3	11		FPQMYQDL	550,00 10	
1760	HPV	type 16 3	11	Cw*0301 LP		180,00 10	
1761	HPV	type 16 3	11	Cw*0401 LP		105,60 10	
1762	HPV	type 16 3	11		QMYQDLVL	220,00 10 113 55 10	
1763	HPV	type 16 3	11	-	YODLVLIL	113,55 10 250,00 10	
1764	HPV	type 16 3	11		YQDLVLLL	250,00 10 200,00 10	
1765	HPV	type 16 3	11	B*2705 YQ	DLVLLLQL	200,00 IO	

							200	
			b 1C	-	11	B*3701	QDLVLLLQLI	200,00 10
	766	HPV		3				309,05 10
	767	HPV		3	11	A*0201	VLLLQLIPHL	
17	768	HPV		3	11	A*0201	LLLQLIPHLL	•
17	769	HPV		3	12	B*2705	FLWIHLLL	150,00 8
17	770	HPV	type 16	3	12		KFLWIHLLL	200,00 9
17	771	HPV	type 16	3	12	A*0201	FLWIHLLLA	436,26 9
17	772	HPV	type 16	3	12	B*3901	${ t IHLLLAQTL}$	180,00 9
	773	HPV	type 16	3	14	Cw*0301	MWIIHYIFL	100,00 9
	774	HPV		3	14	A*0201	WIIHYIFLV	586,85 9
	775	HPV		3	14	A*0201	YIFLVMIIV	153,49 9
	776	HPV	type 16	3	14	B*5201	YIFLVMIIV	120,00 9
			type 16	3	14		IFLVMIIVL	440,00 9
	777	HPV			14	A*0201	FLVMIIVLI	110,38 9
	778	HPV	type 16	3	14	A*0205	YIFLVMIIVL	126,00 10
	779	HPV	type 16	3				200,00 8
	780	HPV	type 16	3	15	B*2705	MOPHLLLL	440,00 8
	781	HPV	type 16	3	15	B*5102	QPHLLLLI	
17	782	HPV	type 16	3	15	B*2705	LQILLQPR	100,00 8
17	783	HPV	type 16	3	15	B*2705	LQPRYHLY	100,00 8
17	784	HPV	type 16	3	15	B*2705	PRYHLYPL	1000,00 8
17	785	HPV	type 16	3	15	B*3901	YHLYPLHL	270,00 8
	786	HPV	type 16	3	15	B*5102	Abrhrada	1452,00 8
	787	HPV	type 16	3	15	B*2705	HLYQVIFL	150,00 8
	788	HPV	type 16	3	15	B*2705	LQIQQFLL	200,00 8
	789	HPV	type 16	3	15	B*2705	QQFLLVVH	100,00 8
			type 16	3	15		QPHLLLLIM	120,00 9
	790 701	HPV		3	15	A*0201	LLLLIMDYM	193,70 9
	791	HPV	type 16		15	A*0201	LIMDYMIFM	222,85 9
	792	HPV	type 16	3				200,00 9
	793	HPV	type 16	3	15	B*2705	MONTLLQIL	•
1'	794	HPV	type 16	3	15	B*2705	LQILLQPRY	100,00 9
1'	795	HPV	type 16	3	15	B62	LQILLQPRY	160,00 9
1,	796	HPV	type 16	3	15	A*0201	ILLQPRYHL	134,37 9
	797	HPV	type 16	3	15	в7	QPRYHLYPL	800,00 9
	798	HPV	type 16	3	15	Cw*0401	QPRYHLYPL	176,00 9
	799	HPV	type 16	3	15	B*2705	PRYHLYPLH	100,00 9
	800	HPV	type 16	3	15	A24	RYHLYPLHL	400,00 9
				3	15		RYHLYPLHL	330,00 9
	.801	HPV	type 16			B*5201	YPLHLYQVI	220,00 9
	802	HPV	type 16	3	15			
	.803	HPV	type 16	3	15	B*5102	YPLHLYQVI	
1	.804	HPV	type 16	3	15	B*3901	LHLYQVIFL	270,00 9
1	.805	HPV	type 16	3	15	A24	LYQVIFLQI	126,00 9
1	.806	HPV	type 16	3	15		IFLQIQQFL	200,00 9
1	.807	HPV	type 16	3	15	A*0201	${ t FLQIQQFLL}$	569,95 9
	.808	HPV	type 16	3	15	B*2705	QQFLLVVHT	100,00 9
	.809	HPV	type 16	3	15	A*0201	LLVVHTIFL	199,74 9
	.810	HPV	type 16	3	15	B*5201	MQPHLLLLIM	198,00 10
	811	HPV	type 16	3	15	A*0201	LLIMDYMIFM	106,84 10
				3	15		DYMIFMQMTL	220,00 10
	1812	HPV	type 16		15	A24	DYMIFMQMTL	300,00 10
	813	HPV	type 16	3				163,23 10
	1814	HPV	type 16	3	15	A*0201	YMIFMOMTLL	
1	1815	HPV	type 16	3	15	B*2705	MOMTLLQILL	
1	L <b>81</b> 6	HPV	type 16	3	15	B*2705	LQPRYHLYPL	200,00 10
1	L817	HPV	type 16	3	15	B*2705	PRYHLYPLHL	1000,00 10
1	L <b>81</b> 8	HPV	type 16	3	15	A24	LYPLHLYQVI	108,00 10
1	L819	HPV	type 16	3	15	A*0201	VIFLQIQQFL	101,62 10
	1820	HPV	type 16	3	15	Cw*0401	IFLQIQQFLL	200,00 10
	1821	HPV	type 16	3	15	A*0201	FLQIQQFLLV	607,88 10
	1822	HPV	type 16	3	15	B*5201	LQIQQFLLVV	495,00 10
	1823	HPV	type 16	3	15	B*2705	QQFLLVVHTI	300,00 10
		· HPV ·	type 16				QQFLLVVHTI	
	L824				15		QFLLVVHTIF	100,00 10
	L825	HPV	type 16	3				1999,73 10
	1826	HPV	type 16		15	A*0201	FLLVVHTIFL	200,00 8
	1827	HPV	type 16		16	B*2705	ARTNIYYH	
	1828	HPV	type 16		16	B*2705	SRLLAVGH	200,00 8
	1829	HPV	type 16	3	16	B*5102	KPNNNKIL	121,00 8
1	1830	HPV	type 16		16	B*5201	LQYRVFRI	150,00 8
1	1831	HPV	type 16		16	B*2705	YRVFRIHL	2000,00 8
	1832	HPV	type 16		16	B*5102	NPDTQRLV	121,00 8
	1833	HPV	type 16		16	B*2705	QRLVWACV	600,00 8
	1834	HPV	type 16		16	B*5102	WACVGVEV	121,00 8
	1835	HPV	type 16		16	B*2705	GRGQPLGV	600,00 8
	1836	HPV	type 16		16	B*2705	KQTQLCLI	180,00 8
	1837	HPV	type 16		16	B*5102	SPCTNVAV	242,00 8
			type 16		16	B*5102	NPGDCPPL	100,00 8
	1838	HPV			16	B*5102	YPDYIKMV	200,00 8
	1839	HPV	type 16			B*2705	LRREQMEV	600,00 8
	1840	HPV	type 16		16 16	B*2705	RREQMEVR	3000,00 8
	1841	HPV	type 16		16			
	1842	HPV	type 16		16	B*2705	QMFVRHLF	
	1843	HPV	type 16		16	B*2705	AQIFNKPY	100,00 8
:	1844	HPV	type 16	3	16	B*2705	QRAQGHNN	200,00 8
:	1845	HPV	type 16		16	B*2705	TRSTNMSL	2000,00 8
	1846	HPV	type 16		16	B*3901	RHGEEYDL	180,00 8
	1847	HPV	type 16		16	B*2705	LQFIFQLC	100,00 8
	1848	HPV	type 16		16	B*2705	FQLCKITL	200,00 8
	1849	HPV	type 16		16	B*5102	TADVMTYI	110,00 8
					16	B*5102	QPPPGGTL	110,00 8
		Tillia	trama 10		U	J J 102	×	,
:	1850	HPV	type 16			ロネつづりに	T COM/FRRV	3000.00 8
:	1850 1851	HPV	type 16	3	16	B*2705	YRFVTQAI	3000,00 8 200,00 8
	1850 1851 1852	HPV HPV	type 16 type 16	3	16 16	B*2705	TQAIACQK	200,00 8
	1850 1851 1852 1853	HPV HPV	type 16 type 16 type 16	3 3 3	16 16 16	B*2705 B*3501	TQAIACQK APKEDDPL	200,00 8 180,00 8
	1850 1851 1852 1853 1854	HPV HPV	type 16 type 16 type 16 type 16	3 3 3	16 16 16 16	B*2705 B*3501 B*5102	TQAIACQK APKEDDPL FPLGRKFL	200,00 8 180,00 8 660,00 8
	1850 1851 1852 1853	HPV HPV	type 16 type 16 type 16	3 3 3	16 16 16	B*2705 B*3501	TQAIACQK APKEDDPL	200,00 8 180,00 8

1856	HPV	type 16 3	16	B*2705	LQAGLKAK	200,00 8
1857	HPV	type 16 3	16		KAKPKFTL	160,00 8
1858	HPV	type 16 3	16	B*2705	KRKATPTT	600,00 8
1859	HPV	type 16 3	16	B*2705	MQVTFIYIL	200,00 9
1860	HPV	type 16 3	15	B*3901	YHIFFQMSL	180,00 9
1861	HPV	type 16 3	16	Cw*0401	IFFQMSLWL	220,00 9
1862	HPV	type 16 3	16	Cw*0401	LPSEATVYL	105,60 9
1863	HPV	type 16 3	16	B*5102	LPSEATVYL	133,10 9
1864	HPV	type 16 3	16	B*5103	EATVYLPPV	110,00 9
1865	HPV	type 16 3	16	B*5102	EATVYLPPV	100,00 9
1866	HPV	type 16 3	16	B*5102	LPPVPVSKV	400,00 9
1867	HPV	type 16 3	16	B*2705	ARTNIYYHA	200,00 9
1868	HPV	type 16 3	16	A24	YYHAGTSRL	200,00 9
1869	HPV	type 16 3	16	Cw*0401	YYHAGTSRL	300,00 9
1870	HPV	type 16 3	16	B*5102	KPNNNKILV	242,00 9
1871	HPV	type 16 3	16	Cw*0301	ILVPKVSGL	120,00 9
1872	HPV	type 16 3	16	B*3501	VPKVSGLQY	120,00 9
1873	HPV	type 16 3	16	A*0201	GLQYRVFRI	139,17 9
1874	HPV	type 16 3	16	A24	QYRVFRIHL	200,00 9
1875	HPV	type 16 3	16	Cw*0401	QYRVFRIHL	220,00 9
1876	HPV	type 16 3	16	B*2705	FRIHLPDPN	200,00 9
1877	HPV	type 16 3	16	Cw*0401	KFGFPDTSF	110,00 9
1878	HPV	type 16 3	16	A24	FYNPDTQRL	432,00 9
1879	HPV	type 16 3	16	Cw*0401	FYNPDTQRL	240,00 9
1880	HPV	type 16 3	16	B60	VEVGRGQPL	320,00 9
1881	HPV	type 16 3	16	B*5103	SAYAANAGV	330,00 9
1882	HPV	type 16 3	16	B*5102	SAYAANAGV	550,00 9
1883	HPV	type 16 3	16	B*5102	AGVDNRECI	290,40 9
1884	HPV	type 16 3	16	B*2702	NRECISMDY	200,00 9
1885	HPV	type 16 3	16	B*2705	NRECISMDY	1000,00 9
1886	HPV	type 16 3	16	A24	DYKQTQLCL	200,00 9
1887	HPV	type 16 3	16	Cw*0401	DYKQTQLCL	240,00 9
1888	HPV	type 16 3	16	B*2705	TQLCLIGCK	200,00 9
1889	HPV	type 16 3	16	B*3701	GDCPPLELI	200,00 9
1890	HPV	type 16 3	16	B*5102	VPLDICTSI	1200,00 9
1891	HPV	type 16 3	16	Cw*0301	CKYPDYIKM	125,00 9
1892	HPV	type 16 3	16	Cw*0401	FFYLRREQM	110,00 9 180,00 9
1893	HPV	type 16 3	16	A24	FYLRREQMF	•
1894	HPV	type 16 3	16	Cw*0401	FYLRREQMF	*
1895	HPV	type 16 3	16	A*0201	YLRREQMFV	133,73 9 1000,00 9
1896	HPV	type 16 3	16	B*2705	LRREOMFVR	600,00 9
1897	HPV	type 16 3	16	B*2705	RREQMFVRH	160,00 9
1898	HPV	type 16 3	16	B60	REQMFVRHL	200,00 9
1899	HPV	type 16 3	16	B*2705	NRAGTVGEN RAGTVGENV	121,00 9
1900		type 16 3	16	B*5103		133,10 9
1901		type 16 3	16	B*5102 A68.1	RAGTVGENV NVPDDLYIK	120,00 9
1902		type 16 3	16	Cw*0401	YFPTPSGSM	110,00 9
1903		type 16 3 type 16 3	16 16	B*5102	FPTPSGSMV	400,00 9
1904			16	B*5102	RAQGHNNGI	110,00 9
1905			16	B*5103	RAQGHNNGI	242,00 9
1906			16	A68.1	FVTVVDTTR	300,00 9
1907			16	B*2705	TRSTNMSLC	200,00 9
1908		type 16 3 type 16 3	16	B*2705	LRHGEEYDL	2000,00 9
1909		type 16 3	16	B*2705	LQFIFQLCK	1000,00 9
1910		type 16 3	16	Cw*0401	IFOLCKITL	200,00 9
1911 1912		type 16 3	16	B*2705	LOPPPGGTL	200,00 9
1913		type 16 3	16	B*2702	YRFVTQAIA	100,00 9
1914		. type 16 3		B*2705	YRFVTQAIA	1000,00 9
1915		type 16 3	16	A24	KYTFWEVNL	400,00 9
1916		type 16 3	16	Cw*0401		200,00 9
1917		type 16 3	16	Cw*0401		200,00 9
1918		type 16 3	16	B62	DQFPLGRKF	192,00 9
1919		type 16 3	16	Cw*0401		200,00 9
1920		type 16 3	16	B*5102	FPLGRKFLL	660,00 9
1921		type 16 3	16	B*2705	KRKATPTTS	600,00 9
1922		type 16 3	16	B8	TAKRKKRKL	320,00 9
1923		type 16 3	16	Cw*0401		330,00 10
1924		type 16 3	16	A24	VYHIFFQMSL	200,00 10
1925		type 16 3	16	A*0201	SLWLPSEATV	577,28 10
1926		type 16 3	16	A*0201	WLPSEATVYL	540,47 10
1927		type 16 3	16	A*0201	YLPPVPVSKV	735,86 10
1928	B HPV	type 16 3	16	B*5102	LPPVPVSKVV	242,00 10
1929		type 16 3	16	B*5201	LPPVPVSKVV	435,60 10
1930		type 16 3	16	A68.1	VVSTDEYVAR	200,00 10
1931		type 16 3	16	Cw*0401		200,00 10
1932		type 16 3	16	A24	IYYHAGTSRL	200,00 10
1933		type 16 3	16	Cw*0401		360,00 10
1934		type 16 3	16	A24	YYHAGTSRLL	200,00 10
1935		type 16 3	16	B*5102	HAGTSRLLAV	110,00 10
1936		type 16 3	16	B*5103	HAGTSRLLAV	121,00 10
193		type 16 3	16	B*2702	SRLLAVGHPY	200,00 10 1000,00 10
1938		type 16 3	16	B*2705	SRLLAVGHPY	1000,00 10 660,00 10
1939		type 16 3	16 16	B*5102	LAVGHPYFPI	110,00 10
1940		type 16 3	16 - 16	B*5103	LAVGHPYFPI	240,00 10
194:		type 16 3		A68.1	AVGHPYFPIK	126,00 10
194:		type 16 3	16 16	A*0205	KILVPKVSGL	528,00 10
194		type 16 3	16 16	B*5102 B*2705	SGLQYRVFRI LQYRVFRIHL	1000,00 10
194		type 16 3	16 16	B*2705	FRIHLPDPNK	2000,00 10
194.	5 HPV	type 16 3	16	2/05 م	TUTITIEDENK	2000,00 10

- 195 -

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		h 16 3	16	C+++0401	CEVAIDOMODI	200,00 10
1946	HPV	type 16 3	16 16	Cw*0401	SFYNPDTQRL	600,00 10
1947	HPV	type 16 3	16 16	B*2705	QRLVWACVGV	600,00 10
1948	HPV	type 16 3	16 16	B*2705 B*5102	GRGQPLGVGI NAGVDNRECI	242,00 10
1949	HPV	type 16 3	16 16			121,00 10
1950	HPV	type 16 3	16	B*5103	NAGVDNRECI	2000,00 10
1951	HPV	type 16 3	16	B*2705	NRECISMDYK	120,00 10
1952	HPV	type 16 3	16	B7	NPGDCPPLEL	
1953	HPV	type 16 3	16	B*5102	NPGDCPPLEL	
1954	HPV	type 16 3	16	B*5102	CPPLELINTV	
1955	HPV	type 16 3	16	B*5102	PPLELINTVI	
1956	HPV	type 16 3	16	Cw*0401	GFGAMDFTTL	
1957	HPV	type 16 3	16	B*2705	LQANKSEVPL	200,00 10
1958	HPV	type 16 3	16	A1	VSEPYGDSLF	135,00 10 110,00 10
1959	HPV	type 16 3	16	Cw*0401	LFFYLRREQM	110,00 10 110,00 10
1960	HPV	type 16 3	16	Cw*0401	FFYLRREQMF	200,00 10
1961	HPV	type 16 3	16	B*2705	LRREQMFVRH	1800,00 10
1962	HPV	type 16 3	16	B*2705	RREQMFVRHL	125,00 10
1963	HPV	type 16 3	16	B*2705	QMFVRHLFNR	200,00 10
1964	HPV	type 16 3	16	B*2705	VRHLFNRAGT	600,00 10
1965	HPV	type 16 3	16	B*2705 Cw*0401	NRAGTVGENV	132,00 10
1966	HPV	type 16 3	16		NYFPTPSGSM	200,00 10
1967	HPV	type 16 3	16	B*2705	AQIFNKPYWL	600,00 10
1968	HPV	type 16 3	16	B*2705	QRAQGHNNGI	200,00 10
1969	HPV	type 16 3	16	B*2705	TRSTNMSLCA	225,00 10
1970	HPV	type 16 3	16	B*2705	KEYLRHGEEY	600,00 10
1971	HPV	type 16 3	16	Cw*0401	EYDLQFIFQL	200,00 10
1972	HPV	type 16 3	16	A24	EYDLQFIFQL	300,00 10
1973	HPV	type 16 3	16	B*2705	LQFIFQLCKI	
1974	HPV	type 16 3	16	A*0201	TLTADVMTYI	131,97 10 258,44 10
1975	HPV	type 16 3	16	A*0201	TILEDWNFGL	100,00 10
1976	HPV	type 16 3	16	B*2702	YRFVTQAIAC	
1977	HPV	type 16 3	16	B*2705	YRFVTQAIAC	
1978	HPV	type 16 3	16	A68.1 B*2705	FVTQAIACQK	120,00 10 200,00 10
1979	HPV	type 16 3	16		COKHTPPAPK	
1980	HPV	type 16 3	16	Cw*0401	QFPLGRKFLL CDVELLOACI	220,00 10 2000,00 10
1981	HPV	type 16 3	16	B*2705	GRKFLLQAGL	600,00 10
1982	HPV	type 16 3	16	B*2705	KRKATPTTSS	
1983	HPV	type 16 3	17	B*2705	KLYVCLYV	•
1984	HPV	type 16 3	17	B*2705	CLYVWYNK	150,00 8 300,00 9
1985	HPV	type 16 3	17	A3	CLYVLVNIK	
1986	HPV	type 16 3	17	B*2705	CLYVLVNIK	
1987	HPV	type 16 3	17	A24	LYVLVNIKL	462,00 9 220,00 9
1988	HPV	type 16 3	17	Cw*0401	LYVLVNIKL	·
1989	HPV	type 16 3	17	A*0201	VLVNIKLYV	650,31 9 100,00 9
1990	HPV	type 16 3	17	Cw*0301	VNIKLYVCL	150,00 10
1991	HPV	type 16 3	17	B*2705 A*0201	CLYVLVNIKL	569,69 10
1992	HPV	type 16 3	17		KLYVCLYVWY	225,00 10
1993	HPV	type 16 3	17	B*2705	YVCLYVWYNK	120,00 10
1994	HPV	type 16 3	17	A68.1	CLYVWYNKHV	222,57 10
1995	HPV	type 16 3	17	A*0201 Cw*0401	WYNKHVCMCF	100,00 10
1996	HPV	type 16 3	17 17	A24	WYNKHVCMCF	210,00 10
1997	HPV	type 16 3 type 16 3	18	Cw*0301	FGLHIYKQL	120,00 9
1998	HPV		18	B*5102	FGLHIYKQL	145,20 9
1999	HPV	type 16 3		A68.1	KVSHTLFICK	120,00 10
2000	HPV	type 16 3	18 18	B*2705	VOTDFGLHIY	100,00 10
2001	HPV	type 16 3	18	B62	VQTDFGLHIY	176,00 10
2002	HPV	type 16 3 type 16 3	18	A1	QTDFGLHIYK	125,00 10
2003	HPV		18		DEGLHIYKOL	200,00 10
		type 16_3 type 16_3	18	B*5102	FGLHIYKQLI	580,80 10
2005 2006	HPV HPV	type 16 4	1	B*5102	LGYKPISI	484,00 8
2007	HPV	type 16 4	1	B*5201	LGYKPISIF	225,00 9
			2	B*5102	GPNQPLCI	440,00 8
2008 2009	HPV HPV	type 16 4 type 16 4	2	B*5102	QPLCIWII	1200,00 8
2010	HPV	type 16 4	2	A24	TYTGPNQPL	240,00 9
2011	HPV	type 16 4	2	Cw*0401		200,00 9
2011	HPV	type 16 4	2	B*5201	NOPLCIWII	240,00 9
2012	HPV	type 16 4	2	B*5102	GPNQPLCIWI	440,00 10
2013	HPV	type 16 4	2	B*2705	NOPLCIWIIK	200,00 10
2015	HPV	type 16 4	3	A*0201	MVNVYVVFV	130,88 9
2016	HPV	type 16 4	3	A*0201	NMVNVYVVFV	635,43 10
2017	HPV	type 16 4	4	B*2705	HQKELLYL	200,00 8
2018	HPV	type 16 4	4	B*2705	LQEYNLIK	200,00 8
2019	HPV	type 16 4	4	B*2705	KEYCMHHQK	450,00 9
2020	HPV	type 16 4	4	B*3901	HHQKELLYL	135,00 9
2021	HPV	type 16 4	4	A*0201	LLYLQEYNL	116,21 9
2021	HPV	type 16 4	4	B*2705	LLYLQEYNL	150,00 9
2023	HPV	type 16 4	4	A3	YLQEYNLIK	180,00 9
2023	HPV	type 16 4	4	Cw*0401		220,00 10
2024			4	A24	EYCMHHQKEL	220,00 10
2025	HPV		4	B*3901	MHHQKELLYL	135,00 10
2026	HPV	type 16 4 type 16 4	4	A*0201	YLQEYNLIKM	215,50 10
2027	HPV	type 16 4	6	B*2705	QLYPKSQDL	150,00 9
2029	HPV HPV	type 16 4	6	Cw*0301		120,00 9
2029			6	B*5102	YPKSQDLEL	110,00 9
2030	HPV		6	B*2705	KQLYPKSQDL	600,00 10
2032	HPV	type 16 4 type 16 4	6	Cw*0401		200,00 10
2032	HPV	type 16 4	6	A24	LYPKSQDLEL	330,00 10
2033	HPV	type 16 4	6	B*3501	YPKSQDLELY	180,00 10
2034	HPV	type 16 4	9	B*2705	GEWKVQML	150,00 8
2-23	*** A	2775 70 7	-			

- 196 -

	0000	*****	h	9	A*0201	LIHLGEWKV	121,93 9
	2036	HPV	type 16 4				
	2037	HPV	type 16 4	10	B*5102	KGVLQEQV	
	2038	HPV	type 16 4	11	B*2705	VRLYPTLF	1000,00 8
	2039	HPV	type 16 4	11	B*5102	YPTLFQFL	242,00 8
	2040	HPV	type 16 4	11	B*2705	FQFLTHQK	1000,00 8
				11	B*2705	HQKIHPYF	100,00 8
	2041	HPV	type 16 4				2200,00 8
	2042	HPV	type 16 4	11	B*5102	HPYFHIVI	
	2043	HPV	type 16 4	11	B*5102	FPMEYTQCV	532,40 9
	2044	HPV	type 16 4	11	B*2705	MEYTQCVRL	150,00 9
		HPV	type 16 4	11	B60	MEYTQCVRL	352,00 9
	2045				Cw*0301	QCVRLYPTL	180,00 9
	2046	HPV	type 16 4	11			· · · ·
	2047	HPV	type 16 4	11	B*2705	RLYPTLFQF	-
	2048	HPV	type 16 4	11	A24	LYPTLFQFL	518,40 9
	2049	HPV	type 16 4	11	Cw*0401	LYPTLFQFL	200,00 9
	2050	HPV	type 16 4	11	B*2705	FQFLTHQKI	300,00 9
					B*5102		106,48 9
	2051	HPV	type 16 4	11		FQFLTHQKI	•
	2052	HPV	type 16 4	11	B*5201	HPYFHIVIF	125,00 9
	2053	HPV	type 16 4	11	B*2705	TQCVRLYPTL	200,00 10
	2054	HPV	type 16 4	11	B*2702	VRLYPTLFQF	200,00 10
			type 16 4	11	B*2705	VRLYPTLFQF	1000,00 10
	2055	HPV					714,36 10
	2056	HPV	type 16 4	1.1	A*0201	RLYPTLFQFL	
	2057	HPV	type 16 4	11	B*2705	RLYPTLFQFL	450,00 10
	2058	HPV	type 16 4	11	Cw*0301	RLYPTLFQFL	600,00 10
	2059	HPV	type 16 4	11	A3	TLFQFLTHQK	100,00 10
				11	B*2705	TLFQFLTHQK	150,00 10
	2060	HPV	- A &				1000,00 10
	2061	HPV	type 16 4	11	B*5102	HPYFHIVIFV	
	2062	HPV	type 16 4	11	B*5103	HPYFHIVIFV	120,00 10
	2063	HPV	type 16 4	11	B*5201	HPYFHIVIFV	150,00 10
	2064	HPV	type 16 4	12	B*5102	LPVCMFYKV	1200,00 9
			- 4 4 .	13	A*0201	LLLSTIVIPI	150,93 10
	2065	HPV	- A W				
	2066	HPV	type 16 4	14	B*5102	NAVRIGAL	· ·
	2067	HPV	type 16 4	14	B*2705	VRIGALST	200,00 8
	2068	HPV	type 16 4	14	B*5102	GALSTESL	165,00 8
	2069	HPV	type 16 4	14	B*5102	FPVSGSDL	660,00 8
					B*2705	GRWIVVCV	3000,00 8
	2070	HPV	type 16 4	14			
	2071	VPH	type 16 4	14	B*5102	VPKATALV	• •
	2072	HPV	type 16 4	14	B*5102	KATALVWV	100,00 8
	2073	HPV	type 16 4	14	B*5102	LAKCCLII	100,00 8
	2074		type 16 4	14	Cw*0401	GFPVSGSDL	200,00 9
		HPV			B*5801	VSGSDLGRW	105,60 9
	2075	HPV	type 16 4	14			-
	2076	HPV	type 16 4	14	B*2705	GRWIVVCVS	1000,00 9
	2077	HPV	type 16 4	14	A*0201	WIVVCVSSV	101,18 9
	2078	HPV	type 16 4	14	A68.1	VVCVSSVPK	120,00 9
			type 16 4	14	Cw*0301		100,00 9
	2079	HPV				WVAAGWLAK	240,00 9
	2080	HPV	type 16 4	14	A68.1		
	2081	HPV	type 16 4	14	B*5102	AGWLAKCCL	110,00 9
	2082	HPV	type 16 4	14	B*2705	VRIGALSTES	200,00 10
	2083	HPV	type 16 4	14	A*0201	NLVVWQGFPV	403,40 10
				14	B*5102	QGFPVSGSDL	100,00 10
	2084	HPV					
	2085	HPV	type 16 4	14	B*2705	GRWIVVCVSS	1000,00 10
	2086	HPV	type 16 4	14	A68.1	IVVCVSSVPK	240,00 10
					B*5102	IVVCVSSVPK VPKATALVWV	240,00 10 100,00 10
	2087	HPV	type 16 4	14	B*5102	VPKATALVWV	100,00 10
	2087 2088	HPV HPV	type 16 <b>4</b> type 16 4	14 14	B*5102 B*5102	VPKATALVWV AGWLAKCCLI	100,00 10 440,00 10
	2087 2088 2089	HPV HPV HPV	type 16 4 type 16 4 type 16 4	14 14 15	B*5102 B*5102 B*5102	VPKATALVWV AGWLAKCCLI TPTSTTIL	100,00 10 440,00 10 121,00 8
	2087 2088	HPV HPV	type 16 <b>4</b> type 16 4	14 14	B*5102 B*5102 B*5102 B*5801	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW	100,00 10 440,00 10 121,00 8 158,40 9
	2087 2088 2089 2090	HPV HPV HPV	type 16 4 type 16 4 type 16 4 type 16 4	14 14 15	B*5102 B*5102 B*5102	VPKATALVWV AGWLAKCCLI TPTSTTIL	100,00 10 440,00 10 121,00 8
	2087 2088 2089 2090 2091	HPV HPV HPV HPV	type 16 4 type 16 4 type 16 4 type 16 4 type 16 4	14 14 15 15 15	B*5102 B*5102 B*5102 B*5801 A*0201	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW	100,00 10 440,00 10 121,00 8 158,40 9
	2087 2088 2089 2090 2091 2092	HPV HPV HPV HPV HPV	type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4	14 14 15 15 15	B*5102 B*5102 B*5102 B*5801 A*0201 B*5102	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILTTWCFSL TATTPTSTTI	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10
	2087 2088 2089 2090 2091 2092 2093	HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4	14 14 15 15 15 15 15	B*5102 B*5102 B*5102 B*5801 A*0201 B*5102 B*5103	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITTWCFSL TATTPTSTTI TATTPTSTTI	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10
	2087 2088 2089 2090 2091 2092 2093	HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4	14 14 15 15 15 15 15	B*5102 B*5102 B*5102 B*5801 A*0201 B*5102 B*5103 .Cw*0401	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITTWCFSL TATTPTSTTI TATTPTSTTI CFSLMAPFYL	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10
	2087 2088 2089 2090 2091 2092 2093	HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4	14 14 15 15 15 15 15 15	B*5102 B*5102 B*5102 B*5801 A*0201 B*5102 B*5103 .Cw*0401 Cw*0401	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILLTTW ILTTWCFSL TATTPTSTTI TATTPTSTTI CFSLMAPFYL HFSIAIPAVF	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10
	2087 2088 2089 2090 2091 2092 2093	HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4	14 14 15 15 15 15 15	B*5102 B*5102 B*5102 B*5801 A*0201 B*5102 B*5103 Cw*0401 Cw*0401 B*5103	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILLTTW ILITWCFSL TATTPTSTTI TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10
	2087 2088 2089 2090 2091 2092 20932095 2096	HPV HPV HPV HPV HPV HPV HPV HPV-	type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4	14 14 15 15 15 15 15 15	B*5102 B*5102 B*5102 B*5801 A*0201 B*5102 B*5103 .Cw*0401 Cw*0401	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILLTTW ILTTWCFSL TATTPTSTTI TATTPTSTTI CFSLMAPFYL HFSIAIPAVF	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4	14 14 15 15 15 15 15 15 16	B*5102 B*5102 B*5102 B*5801 A*0201 B*5102 B*5103 Cw*0401 Cw*0401 B*5103 B*5102	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILLTTW ILITWCFSL TATTPTSTTI TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4	14 14 15 15 15 15 15 15 16 18 18	B*5102 B*5102 B*5102 B*5801 A*0201 E*5102 B*5103 Cw*0401 Cw*0401 B*5103 B*5102	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITTWCFSL TATTPTSTTI TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI AFVGPETL	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8
<u>.</u>	2087 2088 2089 2090 2091 2092 2093 	HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4	14 14 15 15 15 15 15 15 16 18 18 19	#*5102 #*5102 #*5102 #*5801 A*0201 #*5103 Cw*0401 Cw*0401 #*5103 #*5102 A*0201	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILLTTW ILTTWCFSL TATTPTSTTI TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI SACPAGPSI APVGPETL CITVVTFWV	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9
	2087 2088 2089 2090 2091 2092 2093	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4	14 14 15 15 15 15 15 15 16 18 19	#*5102 #*5102 #*5102 #*5801 A*0201 #*5102 E*5103 - Cw*0401 Cw*0401 E*5103 B*5102 E*5102 B*5102 B*5102	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITTWCFSL TATTPTSTTI TATTPTSTTI - CFSLMAPFYL - HFSIAIPAVF SACPAGPSI SACPAGPSI SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4	14 14 15 15 15 15 15 16 18 18 19 19	#*5102 #*5102 #*5102 #*5801 A*0201 E*5102 E*5103 .Cw*0401 Cw*0401 E*5103 B*5102 A*0201 B*2705 B*5801	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITTWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAW	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10
	2087 2088 2089 2090 2091 2092 2093	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4 type 16 4	14 14 15 15 15 15 15 15 16 18 19 19 2 2	#*5102 #*5102 #*5102 #*5801 A*0201 #*5102 B*5103 Cw*0401 E*5103 B*5102 A*0201 B*2705 B*5801 A68.1	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILTTWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI SACPAGPSI CITVVTFWV MQPNSVEATKWAW SVEATKWAWR	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 15 16 18 18 19 19	#*5102 #*5102 #*5102 #*5801 A*0201 E*5102 E*5103 .Cw*0401 Cw*0401 E*5103 B*5102 A*0201 B*2705 B*5801	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITTWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAW	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 15 15 16 18 18 19 19 2 2 2	#*5102 #*5102 #*5102 #*5801 A*0201 #*5103 Cw*0401 Cw*0401 E*5103 B*5102 B*5102 B*5105 B*5102 A*0201 B*2705 B*5801 A68.1 B*5102	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITTWCFSL TATTPTSTTI TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI AFVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR SVEATKWAWR LGYKPISI	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 484,00 8
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 15 16 18 19 19 2 2 2 3	#*5102 #*5102 #*5102 #*5801 A*0201 #*5102 B*5103 CW*0401 CW*0401 B*5102 B*5102 A*0201 B*5102 A*0201 B*55102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITTWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAW SVEATKWAW LGYKPISI LGYKPISIF	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 200,00 10 484,00 8 225,00 9
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 15 16 18 19 19 2 2 2 3 8	#*5102 #*5102 #*5102 #*5801 A*0201 E*5102 B*5103 Cw*0401 Cw*0401 B*5103 B*5102 A*0201 B*2705 B*5801 A68.1 B*5102 B*5201 B*5102	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITTWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATKWAW SVEATKWAW SVEATKWAW LGYKPISI LGYKPISI IRAYNLRY	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 484,00 8 225,00 9 300,00 8
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 15 16 18 18 19 2 2 2 3 3 8 8	#*5102 #*5102 #*5102 #*5801 A*0201 #*5102 #*5103 Cw*0401 Cw*0401 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITTWCFSL TATTPTSTTI TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI AFVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR SVEATKWAWR LGYKPISI LGYKPISIF IRAYNLRY RRQVDSGL	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 -220,00 10 120,00 10 120,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 484,00 8 225,00 9 300,00 8 6000,00 8
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 15 16 18 19 19 2 2 2 3 8	#*5102 #*5102 #*5102 #*5801 A*0201 #*5102 B*5103 CW*0401 CW*0401 B*5102 B*5102 B*5102 A*0201 B*5102 A*0201 B*5102 B*5102 B*5705 B*5801 A68.1 B*5201 B*2705 B*2705 B*2705 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITTWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATKWAW SVEATKWAW SVEATKWAW LGYKPISI LGYKPISI IRAYNLRY	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 200,00 10 484,00 8 225,00 9 300,00 8
	2087 2088 2089 2090 2091 2092 2093	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 15 16 18 19 19 2 2 2 3 8 8 8	#*5102 #*5102 #*5102 #*5801 A*0201 #*5102 B*5103 CW*0401 CW*0401 B*5102 B*5102 B*5102 A*0201 B*5102 A*0201 B*5102 B*5102 B*5705 B*5801 A68.1 B*5201 B*2705 B*2705 B*2705 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITTWCFSL TATTPTSTTI TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI AFVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR SVEATKWAWR LGYKPISI LGYKPISIF IRAYNLRY RRQVDSGL	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 -220,00 10 120,00 10 120,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 484,00 8 225,00 9 300,00 8 6000,00 8
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 16 18 19 19 2 2 2 3 8 8 8 8	#*5102 #*5102 #*5102 #*5801 A*0201 #*5102 B*5103 Cw*0401 Cw*0401 B*5102 A*0201 B*5102 A*0201 B*55801 A68.1 B*5102 B*5801 A68.1 B*5105 B*5801 B*5105 B*5801 B*5105 B*5801 B*5105 B*5705 B*2705 B*2705 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITTWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAW SVEATKWAW SVEATKWAW SVEATKWAW LGYKPISI LGYKPISIF IRAYNLRY RRQVDSGL TRQPKRHLK	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 200,00 10 484,00 8 225,00 9 300,00 8
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2009 2100 2101 2102 2103 2104 2105 2106 2107 2108	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 15 16 18 18 19 2 2 2 3 3 8 8 8 8	#*5102 #*5102 #*5102 #*5801 A*0201 #*5103 Cw*0401 Cw*0401 B*5102 A*5102 A*0201 B*2705 B*5801 B*5102 B*5201 B*5201 B*5205 B*2705 B*2705 B*2705 B*2705 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITWCFSL TATTPTSTTI TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI SACPAGPSI AFVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR SVEATKWAWR LGYKPISI LGYKPISI IRAYNLRY RRQVDSGL TRQPKRHL KQPKRHL KRHLKKNM	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 -220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 484,00 8 225,00 9 300,00 8 6000,00 8 2000,00 8
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 15 16 18 19 19 2 2 2 3 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5101 #*5102 #*5103 .Cw*0401 CW*0401 E*5103 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5105 B*2705 B*2705 B*2705 B*2705 B*2705 B*2705 B*2705 B*2705 B*2705 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR SVEATKWAWR LGYKPISI LGYKPISI IRAYNLRY RRQVDSGL TRQPKRHL RQPKRHLK KRHLKKNM IYVCACNIF	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 200,00 10 200,00 8 600,00 8 600,00 8 1800,00 8 1800,00 9
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2009 2100 2101 2102 2103 2104 2105 2106 2107 2108	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 16 18 19 19 2 2 2 3 3 8 8 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5801 A*0201 #*5102 B*5103 Cw*0401 Cw*0401 B*5102 B*5102 A*0201 B*5102 A*0201 B*5102 B*5102 B*5105 B*2705 B*2705 B*2705 B*2705 B*2705 B*2705 B*2705 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITTWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK MSVEATKWAW SVEATKWAW SVEATKWAW LGYKPISI IRAYNLRY RRQVDSGL TRQPKRLL RQPKRHLK KRHLKKNM IYVCACNIF	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 120,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 225,00 9 300,00 8 6000,00 8 6000,00 8 1800,00 8 1800,00 9 110,00 9
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 15 16 18 19 19 2 2 2 3 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5101 #*5102 #*5103 .Cw*0401 CW*0401 E*5103 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5105 B*2705 B*2705 B*2705 B*2705 B*2705 B*2705 B*2705 B*2705 B*2705 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR SVEATKWAWR LGYKPISI LGYKPISI IRAYNLRY RRQVDSGL TRQPKRHL RQPKRHLK KRHLKKNM IYVCACNIF	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 -220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 484,00 8 225,00 9 300,00 8 6000,00 8 2000,00 8 6000,00 8 1800,00 8 1800,00 9 110,00 9
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	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 16 18 19 19 2 2 2 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5801 A*0201 #*5102 B*5103 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5705 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITTWCFSL TATTPTSTTII CFSLMAPFYL HFSIAIPAVF SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR SVEATKWAWR SVEATKWAWR LGYKPISI LGYKPISI IRAYNLRY RRQVDSGL TRQPKRHL RQPKRHLK KRHLKKNM IYVCACNIF IYVCACNIF LEYWDRRQV LEYWDRRQV LRYMDRRQV LRYMDRRQV DRRQVDSGL	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 484,00 8 225,00 9 300,00 8 6000,00 8 6000,00 8 1800,00 8 1800,00 8 1800,00 9 110,00 9 900,00 9
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 16 18 19 19 2 2 2 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5801 A*0201 #*5102 B*5103 .Cw*0401 Cw*0401 B*5102 B*5102 A*0201 B*5102 B*5102 B*5102 B*52705 B*5801 A68.1 B*5102 B*52705 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITTWCFSL TATTPTSTTII CFSLMAPFYL HFSIAIPAVF SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAW SVEATKWAW SVEATKWAW SVEATKWAW IGYKPISI IRAYNLRY RRQVDSGL TRQPKRHL RQPKRHLK KRHLKKNM IYVCACNIF LEYWDRRQV LEYWDRRQV LEYWDRRQV DRRQVDSGL RRQVDSGLT	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 484,00 8 225,00 9 300,00 8 6000,00 8 6000,00 8 1800,00 8 1800,00 8 1800,00 9 100,00 9 200,00 9
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 16 18 19 19 2 2 2 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5801 A*0201 #*5102 B*5103 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5705 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITTWCFSL TATTPTSTTII CFSLMAPFYL HFSIAIPAVF SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR SVEATKWAWR SVEATKWAWR LGYKPISI LGYKPISI IRAYNLRY RRQVDSGL TRQPKRHL RQPKRHLK KRHLKKNM IYVCACNIF IYVCACNIF LEYWDRRQV LEYWDRRQV LRYMDRRQV LRYMDRRQV DRRQVDSGL	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 -220,00 10 120,00 10 120,00 10 120,00 10 160,00 10 220,00 10 220,00 10 220,00 10 220,00 10 225,00 9 300,00 8 600,00 8 2000,00 8 600,00 8 180,00 9 110,00 9 200,00 9 200,00 9 300,00 9 300,00 9
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 16 18 19 19 2 2 2 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5801 A*0201 #*5102 B*5103 .Cw*0401 Cw*0401 B*5102 B*5102 A*0201 B*5102 B*5102 B*5102 B*52705 B*5801 A68.1 B*5102 B*52705 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITTWCFSL TATTPTSTTII CFSLMAPFYL HFSIAIPAVF SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAW SVEATKWAW SVEATKWAW SVEATKWAW IGYKPISI IRAYNLRY RRQVDSGL TRQPKRHL RQPKRHLK KRHLKKNM IYVCACNIF LEYWDRRQV LEYWDRRQV LEYWDRRQV DRRQVDSGL RRQVDSGLT	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 484,00 8 225,00 9 300,00 8 6000,00 8 6000,00 8 1800,00 8 1800,00 8 1800,00 9 100,00 9
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 16 18 19 12 2 2 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5101 A*0201 #*5102 E*5103	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR SVEATKWAWR SVEATKWAWR LGYKPISI LGYKPISI IRAYNLRY RRQVDSGL TRQPKRHL RQPKRHLK KRHLKKNM IYVCACNIF IYVCACNIF LRYWDRRQV LRYWDRRQV DRRQVDSGL RRQVDSGL RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 200,00 8 200,00 8 600,00 8 1800,00 8 1800,00 8 1800,00 8 1800,00 9 110,00 9 200,00 9 300,00 9 200,00 9
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2111 2112 2113 2114 2115 2116 2117 2118	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 16 18 19 19 2 2 2 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5801 A*0201 #*5102 B*5103 Cw*0401 Cw*0401 B*5102 B*5102 A*0201 B*5102 B*5102 B*5102 B*5102 B*5705 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITTWCFSL TATTPTSTTII CFSLMAPFYL HFSIAIPAVF SACPAGPSI APVGPETL CITVVTFWV MOPNSVEATK NSVEATKWAWR SVEATKWAWR SVEATKWAWR LGYKPISI LGYKPISIF IRAYNLRY RQVDSGL TRQPKRHL RQPKRHLK KRHLKKNM IYVCACNIF LEYWDRRQV LRYWDRRQV LRYWDRRQV LRYWDRRQV LRYWDRSGL TRQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT RQVDSGLT TRQPKRHLK RQPKRHLKK	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 225,00 9 300,00 8 6000,00 8 6000,00 8 1800,00 8 1800,00 8 1800,00 9 110,00 9 200,00 9 300,00 9 200,00 9 200,00 9 200,00 9 200,00 9
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2110 2111 2112 2113 2114 2115 2116 2117 2118	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 16 18 19 2 2 2 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5801 A*0201 #*5103 Cw*0401 Cw*0401 E*5103 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5105 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI AFVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR LGYKPISI LGYKPISIF IRAYNLRY RRQVDSGL TRQPKRHL RQPKRHL RQPKRHL RQPKRHL RQPKRHL RQPKRHL RQPKRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL RRQVDSGL RRQVDSGL RRQVDSGL RRQVDSGLTR TRQPKRHLK RQPKRHLK RQPKRHLKKNM	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2111 2112 2113 2114 2115 2116 2117 2118	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 16 18 19 19 2 2 2 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5101 #*5102 #*5103 #*5103 #*5102 #*5103 #*5102 #*5103 #*5102 #*5103 #*5102 #*5102 #*5103 #*5102 #*5102 #*5102 #*5102 #*5102 #*5102 #*5102 #*5705 #*2705	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR LGYKPISI LGYKPISI LGYKPISI LGYKPISI LRAYNLRY RRQVDSGL TRQPKRHL RQPKRHLK KRHLKKNM IYVCACNIF LRYWDRRQV DRRQVDSGLT RQVDSGLT RRQVBSGLT RQVBSGLT RQVBSGLT RQVBSGLT RQVBSGLT RQVBSGLT RQVBSGLT RRQVBKRLK RQPKRHLK RGPKRHLK RGPKRHLK RRHLKKNMV MVNVYVVFV	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 120,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 200,00 8 200,00 8 200,00 8 2000,00 8 180,00 8 180,00 9 110,00 9 200,00 9
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2110 2111 2112 2113 2114 2115 2116 2117 2118	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 16 18 19 2 2 2 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5801 A*0201 #*5103 Cw*0401 Cw*0401 E*5103 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5102 B*5105 B*2705	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI AFVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR LGYKPISI LGYKPISIF IRAYNLRY RRQVDSGL TRQPKRHL RQPKRHL RQPKRHL RQPKRHL RQPKRHL RQPKRHL RQPKRQV LRYWDRRQV LRYWDRRQV LRYWDRRQV LRYWDRRQV LRYWDRRQV LRYWDRRQV LRYWDRRQV LRYWDRGLT RQVDSGLTR TRQPKRHLK RQPKRHLK RQPKRHLK RQPKRHLK RQPKRHLK	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 225,00 9 300,00 8 600,00 8 600,00 8 1800,00 8 1800,00 9 110,00 9 200,00 9
	2087 2088 2089 2090 2091 2092 2093	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 15 16 18 19 19 2 2 2 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5101 #*5102 #*5103 #*5103 #*5102 #*5103 #*5102 #*5103 #*5102 #*5103 #*5102 #*5102 #*5103 #*5102 #*5102 #*5102 #*5102 #*5102 #*5102 #*5102 #*5705 #*2705	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI APVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR LGYKPISI LGYKPISI LGYKPISI LGYKPISI LRAYNLRY RRQVDSGL TRQPKRHL RQPKRHLK KRHLKKNM IYVCACNIF LRYWDRRQV DRRQVDSGLT RQVDSGLT RRQVBSGLT RQVBSGLT RQVBSGLT RQVBSGLT RQVBSGLT RQVBSGLT RQVBSGLT RRQVBKRLK RQPKRHLK RGPKRHLK RGPKRHLK RRHLKKNMV MVNVYVVFV	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 120,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 10 200,00 8 200,00 8 200,00 8 2000,00 8 180,00 8 180,00 9 110,00 9 200,00 9
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	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 16 18 19 2 2 2 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5101 #*5102 #*5103	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI AFVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR SVEATKWAWR LGYKPISI LGYKPISIF IRAYNLRY RRQVDSGL TRQPKRHL RQPKRHL RQPKRHL RQPKRHL RYWDRRQV DRRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL RQVDSGL TRQVDSGL RQVDSGL RQVDSGL RQVDSGL TRQPKRHL RQPKRHL RQPKRHLK RQPKRHLK RQPKRHLK RQPKRHLK RQPKRLK RQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQPKRHLK RQPKRHLK RRHLKKNMY MVNVYVVFV YVCACNIF IRYWDRRQVD RRQVDSGLTR	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 120,00 9 330,00 8 305,07 9 200,00 10 160,00 10 220,00 10 220,00 10 160,00 8 225,00 9 300,00 8 600,00 8 2000,00 8 180,00 9 110,00 9 100,00 9 200,00 10 100,00 10
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 16 18 19 12 22 33 88 88 88 88 88 88 88 88 88 88 88 88	#*5102 #*5102 #*5102 #*5101 #*5102 #*5103 #*5102 #*5103 #*5102 #*5103 #*5102 #*5103 #*5102 #*5103 #*5102 #*5103 #*5102 #*5103 #*5102 #*5105 #*2705	VPKATALVWV AGWLAKCCLI TPTSTTIL TSTTILTTW ILITWCFSL TATTPTSTTII CFSLMAPFYL HFSIAIPAVF SACPAGPSI SACPAGPSI SACPAGPSI APVGPETL CITVVTFWV MQFNSVEATK NSVEATKWAWR SVEATKWAWR SVEATKWAWR LGYKPISI LGYKPISI LRAYNLRY RRQVDSGLL TRQPKRHLK KRHLKKNM IYVCACNIF LRYWDRRQV DRRQVDSGLT RQVDSGLT	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 110,00 9 200,00 9 330,00 8 305,07 9 200,00 10 160,00 10 200,00 8 200,00 8 600,00 8 1800,00 8 1800,00 8 1800,00 9 110,00 9 100,00 9 200,00 9 300,00 9 100,00 10 100,00 10 100,00 10 100,00 10
	2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121	HPV HPV HPV HPV HPV HPV HPV HPV HPV HPV	type 16 4 type 16 4	14 14 15 15 15 16 18 19 2 2 2 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	#*5102 #*5102 #*5102 #*5101 #*5102 #*5103	VPKATALVWV AGWLAKCCLI TPTSTTILL TSTTILTTW ILITWCFSL TATTPTSTTI CFSLMAPFYL HFSIAIPAVF SACPAGPSI AFVGPETL CITVVTFWV MQPNSVEATK NSVEATKWAWR SVEATKWAWR LGYKPISI LGYKPISIF IRAYNLRY RRQVDSGL TRQPKRHL RQPKRHL RQPKRHL RQPKRHL RYWDRRQV DRRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL RQVDSGL TRQVDSGL RQVDSGL RQVDSGL RQVDSGL TRQPKRHL RQPKRHL RQPKRHLK RQPKRHLK RQPKRHLK RQPKRHLK RQPKRLK RQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQVDSGL TRQPKRHLK RQPKRHLK RRHLKKNMY MVNVYVVFV YVCACNIF IRYWDRRQVD RRQVDSGLTR	100,00 10 440,00 10 121,00 8 158,40 9 210,63 9 266,20 10 121,00 10 220,00 10 120,00 9 330,00 8 305,07 9 200,00 10 160,00 10 220,00 10 220,00 10 160,00 8 225,00 9 300,00 8 600,00 8 2000,00 8 180,00 9 110,00 9 100,00 9 200,00 10 100,00 10

- 197 -

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2126	HPV	type 16 4	8	B*2705	KRHLKKNMVN	600,00 10	•
2127	HPV	type 16 4	8	B62	HLKKNMVNVY	132,00 10	
2128	HPV	type 16 4	8	A*0201	NMVNVYVVFV	635,43 10	
2129	HPV	type 16 4	10	B*2705	HQKELLYL	200,00 8 200,00 8	
2130	HPV	type 16 4 type 16 4	10 10	B*2705 B*3901	LQEYNLIK HHQKELLYL	200,00 8 135,00 9	
2131 2132	HPV HPV	type 16 4 type 16 4	10	A*0201	LLYLQEYNL	116,21 9	
2133	HPV	type 16 4	10	B*2705	LLYLQEYNL	150,00 9	
2134	HPV	type 16 4	10	A3	YLQEYNLIK	180,00 9	
2135	HPV	type 16 4	10	B*3901	MHHQKELLYL	135,00 10	
2136	HPV	type 16 4	10	A*0201	YLQEYNLIKM	215,50 10 150,00 9	
2137	HPV HPV	type 16 4 type 16 4	11 11	B*2705 Cw*0301	QLYPKSQDL QLYPKSQDL	120,00 9	
2138 2139	HPV	type 16 4	11	B*5102	YPKSQDLEL	110,00 9	
2140	HPV	type 16 4	11	B*2705	KQLYPKSQDL	600,00 10	
2141	HPV	type 16 4	11	Cw*0401		200,00 10	
2142	HPV	type 16 4	11	A24	LYPKSQDLEL	330,00 10	
2143	HPV	type 16 4	11 12	B*3501	YPKSQDLELY YYPHLYLHM	180,00 10 110,00 9	
2144 2145	HPV HPV	type 16 4 type 16 4	12		MYYPHLYLHM	125,00 10	
2146	HPV	type 16 4	12		MYYPHLYLHM	132,00 10	
2147	HPV	type 16 4	12	Cw*0401	LYLHMQDYHM	110,00 10	
2148	HPV	type 16 4	13	B*2705	VRLYPTLF	1000,00 8	
2149	HPV	type 16 4	13	B*5102	YPTLFQFL	242,00 8	
2150	HPV	type 16 4	13 13	B*2705 B*2705	FQFLTHQK HQKIHPYF	1000,00 8 100,00 8	
2151 2152	HPV HPV	type 16 4 type 16 4	13	B*5102	HPYFHIVI	2200,00 8	
2153	HPV	type 16 4	13	B*2705	MEYTQCVRL	150,00 9	
2154	HPV	type 16 4	13	B60	MEYTQCVRL	352,00 9	
2155	HPV	type 16 4	13	Cw*0301	QCVRLYPTL	180,00 9	
2156	HPV	type 16 4	13	B*2705	RLYPTLFQF	225,00 9	
2157	HPV	type 16 4	13 13	A24	LYPTLFQFL LYPTLFQFL	518,40 9 200,00 9	
2158 2159	HPV HPV	type 16 4 type 16 4	13	B*2705	FQFLTHQKI	300,00 9	
2160	HPV	type 16 4	13	B*5102	FOFLTHOKI	106,48 9	
2161	HPV	type 16 4	13	B*5201	HPYFHIVIF	125,00 9	
2162	HPV	type 16 4	13	B*2705	TQCVRLYPTL	200,00 10	
2163	HPV	type 16 4	13	B*2702	VRLYPTLFQF	200,00 10	
2164	HPV	type 16 4	13	B*2705	VRLYPTLFQF	1000,00 10 714,36 10	
2165 2166	HPV HPV	type 16 4 type 16 4	13 13	A*0201 B*2705	RLYPTLFQFL RLYPTLFQFL	450,00 10	
2167	HPV	type 16 4	13	Cw*0301		600,00 10	
2168	HPV	type 16 4	13	A3	TLFQFLTHQK	100,00 10	
2169	HPV	type 16 4	13	B*2705	TLFQFLTHQK	150,00 10	
2170	HPV	type 16 4	13	B*5102	HPYFHIVIFV	1000,00 10	
2171	HPV	type 16 4	13	B*5103	HPYFHIVIFV HPYFHIVIFV	120,00 10 150,00 10	
2172 2173	HPV HPV	type 16 4 type 16 4	13 14	B*5201 B*5102	LPVCMFYKV	1200,00 9	
2174	HPV	type 16 4	14	A*0201	YLPVCMFYKV	607,88 10	
2175	HPV	type 16 4	15	B*2705	LQNVCVAL	200,00 8	
2176	HPV	type 16 4	15	B*2705	LQNVCVALL	200,00 9	
2177	HPV	type 16 4	15	B*5102	VALLSNNSL	181,50 9 118,24 10	
2178	HPV HPV	type 16 4 type 16 4	15 15	A*0201 B*5102	VLCVLQNVCV VALLSNNSLL	199,65 10	
2179 2180	HPV	type 16 4	15	B*2705	KQTNKKKNYI	180,00 10	
2181	HPV	type 16 4	16	B*2705	IRPLCELL	2000,00 8	
2182	HPV	type 16 4	16	B*5102	NAVRIGAL	165,00 8	
2183	HPV	type 16 4	16	B*2705	VRIGALST	200,00 8	
2184 2185		type 16 4	16 16	B*5102 B*5102	GALSTESL FPVSGSDL	165,00 8 660,00 8	
2185	HPV HPV	type 16 4 type 16 4	16	B*2705	GRWIVVCV	3000,00 8	
2187	HPV	type 16 4	16	B*5102	VPKATALV	110,00 8	
2188	HPV	type 16 4	16	B*5102	KATALVWV	100,00 8	
2189	HPV	type 16 4	16	B*5102	LAKCCLII	100,00 8	
2190	HPV	type 16 4	16	A68.1	VVLLLQLIR IRPLCELLN	400,00 9 200,00 9	
2191 2192	HPV HPV	type 16 4 type 16 4	16 16	B*2705 Cw*0401		200,00 9	
2193	HPV	type 16 4	16	B*5801	VSGSDLGRW	105,60 9	
2194	HPV	type 16 4	16	B*2705	GRWIVVCVS	1000,00 9	
2195	HPV	type 16 4	16	A*0201	WIVVCVSSV	101,18 9	
2196	HPV	type 16 4	16	A68.1	VVCVSSVPK	120,00 9	
2197	HPV	type 16 4	16 16	A68.1	SSVPKATAL WVAAGWLAK	100,00 9 240,00 9	
2198 2199	HPV HPV	type 16 4 type 16 4	16	B*5102	AGWLAKCCL	110,00 9	
2200	HPV	type 16 4	16	B*5102	MGVVLLLQLI	264,00 10	
2201	HPV	type 16 4	1.6	A68.1	GVVLLLQLIR	400,00 10	
2202	HPV	type 16 4	16	B*2705	LQLIRPLCEL	200,00 10	
2203	HPV	type 16 4	16	B*2705	IRPLCELLNA	200,00 10	
2204	HPV	type 16 4	16 16	B*5102	RPLCELLNAV	600,00 10 200,00 10	
2205 2206	HPV	type 16 4	16 16	B*2705 A*0201	VRIGALSTES NLVVWQGFPV	403,40 10	
2206	HPV HPV	type 16 4 type 16 4	16	B*5102	QGFPVSGSDL	100,00 10	
2208	HPV	type 16 4	16	B*2705	GRWIVVCVSS	1000,00 10	
2209	HPV	type 16 4	16	A68.1	IVVCVSSVPK	240,00 10	
2210	HPV	type 16 4	16	B*5102	VPKATALVWV	100,00 10	
2211	HPV	type 16 4	16	B*5102	AGWLAKCCLI	440,00 10	
2212	HPV	type 16 4	17 17	B*2705 B*5102	SRLTSCNV	600,00 8 266,20 9	
2213 2214	HPA	type 16 4 type 16 4	17 17	B*5102 B*5102	SPSNCTSTV YPCFFIHPV	440,00 9	
2214	HPV	type 16 4	17	B*5102	GAVKYTSRL	363,00 9	
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2216	un.	type 16 4	17	B*2705	SRLTSCNVH	200,00 9
2216	HPV HPV	type 16 4	17	Cw*0401	HFSLLYCEL	200,00 9
2217	HPV	type 16 4	17	A*0201	SLLYCELYI	212,31 9
2218 2219		type 16 4	17	A*0201	LLYCELYIV	356,80 9
2220	HPV HPV	type 16 4	17	A*0201	ALFFDTASV	257,34 9
2221	HPV	type 16 4	17	B*2702	SRLTSCNVHF	200,00 10
2222		type 16 4	17	B*2705	SRLTSCNVHF	1000,00 10
	HPV	type 16 4	17	B*3901	VHFSLLYCEL	180,00 10
2223	HPV		17	A*0201	SLLYCELYIV	242,67 10
2224	HPV	type 16 4 type 16 4	17	B*5102	NALFFDTASV	330,00 10
2225	HPV		17	B*5103	NALFFDTASV	132,00 10
2226	HPV		18	B*2705	FRIYKTYY	1000,00 8
2227	HPV		18	B*2705	YRPLQKFH	200,00 8
2228	HPV	type 16 4 type 16 4	18	B*2705	FRIYKTYYR	1000,00 9
2229	HPV	type 16 4	18	A24	IYKTYYRPL	200,00 9
2230	HPV	type 16 4	18	Cw*0401	IYKTYYRPL	200,00 9
2231 2232	HPV	type 16 4	18	B*2705	KTYYRPLQK	150,00 9
2232	HPV	type 16 4	18	A24	TYYRPLQKF	132,00 9
2234	HPV	type 16 4	18	Cw*0401	TYYRPLOKF	220,00 9
2235	HPV	type 16 4	18	Cw*0301	RIYKTYYRPL	100,00 10
2236	HPV	type 16 4	18	B*5801	KTYYRPLQKF	158,40 10
2237	HPV	type 16 4	20	B*2705	NRSSKVRM	180,00 8
2238	HPV	type 16 4	20	B*2705	VRMSTCVL	2000,00 8
2239	HPV	type 16 4	20	B*2705	NRSVESHL	2000,00 8
2240	HPV	type 16 4	20	B*2705	LQQKVTIL	200,00 8
2241	HPV	type 16 4	20	A68.1	SVPINRSSK	120,00 9
2242	HPV	type 16 4	20	B*5102	VPINRSSKV	1320,00 9
2243	HPV	type 16 4	20	B7	KVRMSTCVL	200,00 9
2244	HPV	type 16 4	20	B*2705	VRMSTCVLC	200,00 9
2245	HPV	type 16 4	20	A68.1	SVESHLQQK	120,00 9
2246	HPV	type 16 4	20	A68.1	HTIPSVPINR	150,00 10
2247	HPV	type 16 4	20	B*2705	NRSSKVRMST	200,00 10
2248	HPV	type 16 4	20	B*2705	VRMSTCVLCT	200,00 10
2249	HPV	type 16 4	20	B*3901	SHLQQKVTIL	270,00 10
2250	HPV	type 16 4	21	B*5102	AGFLYVFL	110,00 8
2251	HPV	type 16 4	21	B*2705	DRSTDPLY	100,00 8
2252	HPV	type 16 4	21	B*5102	FAFLQDTV	1210,00 8
2253	HPV	type 16 4	21	A*0201	MITAGFLYV	169,89 9
2254	HPV	type 16 4	21	B*5801	ITAGFLYVF	118,80 9
2255	HPV	type 16 4	21	A*0201	FLYVFLMIC	262,05 9
2256	HPV	type 16 4	21	A68.1	YVFLMICNK	240,00 9
2257	HPV	type 16 4	21	B*2705	DRSTDPLYY	100,00 9
2258	HPV	type 16 4	21	A*0201	GIFAFCPDV	134,46 9
2259	HPV	type 16 4	21	Cw*0401	IFAFCPDVF	100,00 9
2260	HPV	type 16 4	21	Cw*0401	AFCPDVFAF	240,00 9
2261	HPV	type 16 4	21	Cw*0401	AFLQDTVAF	100,00 9
2262	HPV	type 16 4	21	B*5102	AGFLYVFLMI	484,00 10
2263	HPV	type 16 4	21	B*5201	AGFLYVFLMI	180,00 10
2264	HPV	type 16 4	21	A*0201	FLMICNKTYI	976,61 10
2265	HPV	type 16 4	21	Cw*0401	TYIDRSTDPL	240,00 10
2266	HPV	type 16 4	21	A24	TYIDRSTDPL	360,00 10
2267	HPV	type 16 4	21	A1	STDPLYYGIF	125.00 10
2268	HPV	type 16 4	21	B*5102	YGIFAFCPDV	240,00 10
2269	HPV	type 16 4	21	Cw*0401	AFCPDVFAFL	288,00 10
2270	HPV	type 16 4	23	B*5102	NPEKQSHI	242,00 8
2271	HPV	type 16 4	23	B*2705	KQSHIPHV	180,00 8
2272	HPV	type 16 4	23	B*5102	IPHVAVTV	200,00 8
2273	HPV	type 16 4	23	B*5103	VACSTHILI	110,00 9
 - 2274	HPV	-type-16-4	23	B*5102		220,00 9
2275	HPV	type 16 4	23	B*2705	KQSHIPHVAV	180,00 10
2276	HPV	type 16 5	1	B*2705	LRVVSTTV	600,00 8
2277	HPV	type 16 5	1	B*5102	LPQQMPLL	110,00 8
2278	HPV	type 16 5	1	B*2705	LRVVSTTVT	200,00 9
2279	HPV	type 16 5	1	B*5801	VSTTVTNSW	132,00 9
2280	HPV	type 16 5	1	Cw*0301		120,00 9 226,01 9
2281	HPV	type 16 5	1	A*0201	WLPQQMPLL	
2282	HPV	type 16 5	1	B*2705	LRVVSTTVTN	200,00 10
2283	HPV	type 16 5	1	Cw*0301		200,00 10
2284	HPV	type 16 5	2	B*5102	FAVDPEPL	300,00 8
2285	HPV	type 16 5	2	B*5102	SPTVPALL	100,00 8
2286	HPV	type 16 5	2		KFAVDPEPL	200,00 9
2287	HPV	type 16 5	2	A1	AVDPEPLMY	1250,00 9
2288	HPV	type 16 5	2	B*2705	LMYKSSGTF	125,00 9
2289	HPV	type 16 5	2	Cw*0401		576,00 9 133,10 9
2290	HPV	type 16 5	2	B*5102	VPALLNKCL	
2291	HPV	type 16 5	2		KFAVDPEPLM AVDPEPLMYK	100,00 10 500,00 10
2292	HPV	type 16 5	2	A1 260 i		
2293	HPV	type 16 5	2	A68.1	AVDPEPLMYK	180,00 10 288,00 10
2294	HPV	type 16 5	2		TFSPTVPALL	2200,00 8
2295	HPV	type 16 5	3	B*5102	SPYGSDTI	193,60 B
2296	HPV	type 16 5	3 3	B*5102	YGSDTILI SPYGSDTIL	550,00 9
2297	HPV	type 16 5		B*5102	SPYGSDTIL	2420,00 10
2298	HPV	type 16 5	3	B*5102	SPYGSDTILI	145,20 10
2299	HPV	type 16 5	3	B*5103	SPYGSDTILI NDDTLCTNT	220,00 9
2300	HPV	type 16 5	4	B*5102	NPDTLGTNI	380,61 9
2301	HPV	type 16 5	4	A*0201	ILLLEGFLI	405,00 9
2302	HPV	type 16 5	4	A3	LLLGFLIGK	120,00 10
2303	HPV	type 16 5	4		. NPDTLGTNIL	
		type 16 5	4	A3	LLLLGFLIGK	270,00 10
2304	HPV					
2304 2305	HPV	type 16 5	5	B*2705	YRWVSESG	100,00 8

- 199 -

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2306	HPV	type 16 5	5	B*2705	LQYRWVSES	100,00 9
2307	HPV	type 16 5	5	B*2702	YRWVSESGI	300,00 9
2308	HPV	type 16 5	5	B*2705	YRWVSESGI	3000,00 9
2309	HPV	type 16 5	5	B*2702	YRWVSESGII	300,00 10 3000,00 10
2310	HPV	type 16 5 type 16 5	5 6	B*2705 B*2705	YRWVSESGII SRCTFCAF	3000,00 10 1000,00 8
2311 2312	HPV HPV	type 16 5 type 16 5	6	B*5102	CAFCRTFV	550,00 8
2313	HPV	type 16 5	6	B*2705	CRTFVSHC	200,00 8
2314	HPV	type 16 5	6	B*2705	SRCTFCAFC	200,00 9
2315	HPV	type 16 5	6	Cw*0401		100,00 9
2316	HPV	type 16 5	6	A*0201	KLGSRCTFCA	100,85 10 1000,00 10
2317 2318	HPV HPV	type 16 5 type 16 5	6 7	B*2705 B*2705	SRCTFCAFCR LQYTMYNA	100,00 8
2319	HPV	type 16 5	7	B*2702	LQYTMYNAF	100,00 9
2320		type 16 5	7	B*2705	LQYTMYNAF	500,00 9
2321	HPV	type 16 5	9	B*5102	NALYCICL	165,00 8
2322		type 16 5	9	B*3901	LHQTALPL HQTALPLY	135,00 8 100,00 8
2323 2324		type 16 5 type 16 5	9 9	B*2705 B*3901	IHVFLYIL	180,00 8
2325	HPV	type 16 5	9	A*0201	MLLHKYIYV	3609,23 9
2326		type 16 5	9	B*5103	TALPLYIHV	132,00 9
2327	HPV	type 16 5	9	B*5102	TALPLYIHV	300,00 9
2328		type 16 5	9	B*5102	LPLYIHVFL	300,00 9
2329		type 16 5 type 16 5	9 9	A24 B*3901	LYIHVFLYI IHVFLYILL	126,00 9 180,00 9
2330 2331		type 16 5 type 16 5	9		IHVFLYILL	100,00 9
2332		type 16 5	9	A*0201	FLYILLVQL	723,25 9
2333		type 16 5	9	A*0205	FLYILLVQL	126,00 9
2334		type 16 5	9	B*2705	FLYILLVQL	150,00 9
2335		type 16 5	9	A*0201	ILLVQLNTL	309,05 9 2606,66 10
2336 2337		type 16 5 type 16 5	9 9	A*0201	LMLLHKYIYV IYVSSLYNAL	2606,66 10 100,00 10
2338		type 16 5	9	Cw*0401	IYVSSLYNAL	200,00 10
2339		type 16 5	9	A24	IYVSSLYNAL	432,00 10
2340	HPV	type 16 5	9		LYNALYCICL	200,00 10
2341		type 16 5	9	A24	LYNALYCICL	300,00 10
2342		type 16 5 type 16 5	9 9	A*0201	ALPLYIHVFL LYIHVFLYIL	117,49 10 400,00 10
23 <b>4</b> 3 23 <b>4</b> 4		type 16 5	9	A24	LYIHVFLYIL	300,00 10
2345		type 16 5	9		VFLYILLVQL	400,00 10
2346		type 16 5	9	A*0201	YILLVQLNTL	114,98 10
2347		type 16 5	9	A*0205	YILLVQLNTL	126,00 10
2348		type 16 5	10	B*5102 B*2705	CPDTHLNV FQFLSLSS	110,00 8 100,00 8
2349 2350		type 16 5 type 16 5	10 10	A24	LYYHFHNVL	240,00 9
2351		type 16 5	10		LYYHFHNVL	200,00 9
2352		type 16 5	10	B60	LEKKDFQFL	160,00 9
2353	HPV	type 16 5	10	B*2702	FQFLSLSSY	100,00 9
2354		type 16 5	10	B*2705	FQFLSLSSY	500,00 9 300,00 10
2355 2356		type 16 5 type 16 5	10 10	A24	YYHFHNVLVF YYHFHNVLVF	300,00 10 100,00 10
2357		type 16 5	10	A3	KLNLDHVLEK	360,00 10
2358		type 16 5	10	B*2705	FQFLSLSSYT	100,00 10
2359		type 16 5	10	B*5102	FPFSSNGNSL	1100,00 10
2360		type 16 5	10	A68.1	NVNTTNLLCK	120,00 10
2361		type 16 5 type 16 5	11 11	B*2705 B*2705	HQSQHVDL SQHVDLLL	200,00 8 200,00 8
2362 2363		type 16 5 type 16 5	11	B*3901	OHADPPPP	540,00 8
	L HPV	type 16 5			IAAFALLV	100,00 8
2365		type 16 5	11	B*3901	WHIVCLSL	270,00 8
2366		type 16 5	11	B*5102	TPSPPLPL	100,00 8
2367		type 16 5	11	B*5102	LGVSPNAAI	264,00 9 110,00 9
2368 2369		type 16 5 type 16 5	11 11	B*5103 B*5102	AAIHQSQHV AAIHQSQHV	399,30 9
2370		type 16 5	11	B*2705	HQSQHVDLL	200,00 9
2371		type 16 5	11	B*2705	SQHVDLLLL	200,00 9
2372		type 16 5	11	B*5102	NGLTNSEKL	159,72 9
2373		type 16 5	11		EKLTPYNSL	100,00 9 100,00 9
2374 2375		type 16 5 type 16 5	11 11	B*5102	FANIAAFAL ANIAAFALL	100,00 9
2376		type 16 5	11	A*0201	LLVFSTFKI	102,87 9
2377		type 16 5	11	B7	TPSPPLPLL	120,00 9
2378		type 16 5	11		TPSPPLPLL	192,00 9
2379		type 16 5	11	B*5102	TPSPPLPLL	100,00 9 121,00 10
2380		type 16 5	11 11	B*5102 B*5103	NAAIHQSQHV NAAIHQSQHV	121,00 10 110,00 10
2381 2382		type 16 5 type 16 5	11	B*3901	IHQSQHVDLL	135,00 10
2383		type 16 5	11	B*2705	HQSQHVDLLL	200,00 10
2384	4 HPV	type 16 5	11	B60	SEKLTPYNSL	160,00 10
2385	5 HPV	type 16 5	11		NFANIAAFAL	220,00 10
2386		type 16 5	11	B*5102	FANIAAFALL	100,00 10 100,00 10
2387 2388		type 16 5 type 16 5	11 11	A*0201	AFALLVFSTF ALLVFSTFKI	100,00 10 223,89 10
2389		type 16 5	11	A*0201	LVFSTFKIFV	800,05 10
2390		type 16 5	11	A*0201	KIFVSGVWHI	320,45 10
239	1 HPV	type 16 5	12	B*5102	QPPPLPPL	100,00 8
239		type 16 5	12	B*2705	LQPPPLPPL	200,00 9
2393		type 16 5	12 12	B*2705 B62	LQPPPLPPLY LQPPPLPPLY	100,00 10 192,00 10
2394 2395		type 16 5 type 16 5	13	B*5102	AALLCFSI	660,00 8
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- 200 -

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2206	יוסנים	type 16 5	13	B*5102	IAFNLGLI	1100,00	8
2396	HPV	type 16 5	13	B*5102	SGLPNTFV	145,20	8
2397	HPV HPV	type 16 5	13	B*5102	EPVLHLYV	660,00	8
2398	HPV	type 16 5	13	B*3901	PHPAAAATT	270,00	8
2399 2400	HPV	type 16 5	13	B*5103	FAALLCFSI	110,00	9
2401	HPV	type 16 5	13	B*5102	FAALLCFSI	440,00	9
2402	HPV	type 16 5	13	A*0201	ALLCFSIHI	146,69	9
2403	HPV	type 16 5	13	B*3901	IHIAFNLGL	180,00	9
2404	HPV	type 16 5	13	B*5102	IAFNLGLIL	275,00	9
2405	HPV	type 16 5	13	Cw*0401	AFNLGLILL	400,00	9
2406	HPV	type 16 5	13	Cw*0401	HPLISLSGL	160,00	9
2407	HPV	type 16 5	13	B*5102	HPLISLSGL	300,00	9
2408	HPV	type 16 5	13	B62	SLSGLPNTF	105,60	9
2409	HPV	type 16 5	13	Cw*0301	SGLPNTFVL	120,00	9
2410	HPV	type 16 5	13	A*0201	FVLEPVLHL	300,01	9
2411	HPV	type 16 5	13	A*0205	FVLEPVLHL	756,00	9
2412	HPV	type 16 5	13	A1	VLEPVLHLY	450,00	9
2413	HPV	type 16 5	13	B*5102	EPVLHLYVV	660,00	9
2414	HPV	type 16 5	13	B*5102	AALLCFSIHI	660,00	10
2415	HPV	type 16 5	13	B*5103	AALLCFSIHI	132,00	10
2416	HPV	type 16 5	13	Cw*0401	CFSIHIAFNL	200,00	10
2417	HPV	type 16 5	13	B*5102	IAFNLGLILL	302,50	10
2418	HPV	type 16 5	13	B*3901	THPLISLSGL	135,00	10
2419	HPV	type 16 5	13	B*5801	ISLSGLPNTF	108,90	10
2420	HPV	type 16 5	13	A*0201	SLSGLPNTFV	382,54	10
2421	HPV	type 16 5	13	B*5102	LPNTFVLEPV	266,20	10
2422	HPV	type 16 5	1.3	Cw*0401	TFVLEPVLHL	440,00	10
2423	HPV	type 16 5	13	B*5102	EPVLHLYVVL	330,00	10
2424	HPV	type 16 5	13	Cw*0301	EPVLHLYVVL	100,00	10
2425	HPV	type 16 5	14	B*5102	LPVLNNHYHL	363,00	10
2426	HPV	type 16 5	16	B*3901	IHYIPYPL	180,00	8 8
2427	HPV	type 16 5	16	B*5102 Cw*0401	YPLPHWYL	600,00	9
2428	HPV	type 16 5	16	B*5102	LFFFPLQPL FPLQPLHKT	400,00 132,00	9
2429	HPV	type 16 5 type 16 5	16 16			3194,40	10
2430	HPV		16 16	B*5102 B*2705	FPLQPLHKTI LQPLHKTIHY	100,00	10
2431 2432	HPV	type 16 5 type 16 5	16 16	B*5102	QPLHKTIHYI	1756,92	10
2432	HPV	type 16 5 type 16 5	16	B7	IPYPLPHWYL	120,00	10
	HPV	type 16 5	16	B*5102	IBABPBHMAP	550,00	10
2434 2435	HPV HPV	type 16 5	16	Cw*0301	IPYPLPHWYL	100,00	10
2436	HPV	type 16 5	17	B*2705	HLFHPPPL	150,00	8
2437	HPV	type 16 5	17	B*5102	PPLSCHLI	120,00	8
2438	HPV	type 16 5	17	B*2705	SRDQLSLV	600,00	8
2439	HPV	type 16 5	17	B*3901	DHLFHPPPL	180,00	9
2440	HPV	type 16 5	17	Cw*0401	HPPPLSCHL	105,60	9
2441	HPV	type 16 5	17	B*5102	HPPPLSCHL	100,00	9
2442	HPV	type 16 5	17	B*2705	SRDQLSLVA	200,00	9
2443	HPV	type 16 5	17	A*0201	SLVANLTYI	131,97	9
2444	HPV	type 16 5	17	B*5102	HPPPLSCHLI	400,00	10
2445	HPV	type 16 5	17	B*2705	SRDQLSLVAN	200,00	10
2446	HPV	type 16 5	19	B*5102	FGYALSFI	800,00	8
2447	$\mathbf{V}^{\mathbf{H}}$	type 16 5	19	A*0205	WVLKHCSSL	126,00	9
2448	HPV	type 16 5	19	B*5102	YALSFIHEL	330,00	9
2449	HPV	type 16 5	19	A*0205	WVLKHCSSLL	126,00	10
2450	HPV	type 16 5	19	B62	ILTGFGSTDF	149,76	10
2451	HPV	type 16 5	19	B*3701	TDFGYALSFI	200,00	10
2452	HPV	type 16 5	19	Cw*0401	GYALSFIHEL	400,00	10
2453	HPV	type 16 5	19	A24	GYALSFIHEL	220,00	10 10
2454_	HPV	type 165	19	B*5102 B*5103		330,00 121,00	9
2455	HPV	type 16 5	1 1		CAVLOMNNV	363,00	9
2456	HPV	C) DC TO C	2	B*5102 B*5102	CAVLQMNNV KALAHSDL	150,00	8
2457	HPV		2	A*0201	ALAHSDLFYM	364,50	10
2458 2459	HPV HPV	type 16 5 type 16 5	3	B*2705	CRSGKQGF	1000,00	8
2459	HPV	type 16 5	3	B*2705	KQETYKFK	600,00	8
2461	HPV	type 16 5	3	B*2705	KOGFGTHGK	600,00	9
2462	HPV	type 16 5	3	A68.1	MVGKQCRSGK	240,00	10
2463	HPV	type 16 5	3	B*2705	KQCRSGKQGF	300,00	10
2464	HPV	type 16 5	3	B*2705	CRSGKQGFGT	200,00	10
2465	HPV	type 16 5	6	B*5102	AAHNDIFV	121,00	8
2466	HPV	type 16 5	6	B*3901	AHNDIFVL	180,00	8
2467	HPV	type 16 5	6	B*2705	LRVVSTTV	600,00	8
2468	HPV	type 16 5	6	B*5102	LPQQMPLL	110,00	8
2469	HPV	type 16 5	6	B*5103	MAAHNDIFV	110,00	9
2470	HPV	type 16 5	6	B*5102	MAAHNDIFV	121,00	9
2471	HPV	type 16 5	6	B*2705	LRVVSTTVT	200,00	9
2472	HPV	type 16 5	6	B*5801	VSTTVTNSW	132,00	9
2473	HPV	type 16 5	6	Cw*0301		120,00	9
2474	HPV	type 16 5	6	A*0201	WLPQQMPLL	226,01	9
2475	HPV	type 16 5	6	A*0201	FVLRVVSTTV	103,58	10
2476	HPV	type 16 5	6	B*2705	LRVVSTTVTN	200,00	10
2477	HPV	type 16 5	6	Cw*0301		200,00	10
2478	HPV	type 16 5	7	B*5102	SPTVPALL	100,00	8
2479	HPV	type 16 5	7	Cw*0401		576,00	9 9
2480	HPV	type 16 5	7	B*5102	VPALLNKCL	133,10	10
2481	HPV	type 16 5	7	Cw*0401		288,00 600,00	8
2482	HPV	type 16 5	8 8	B*2705	VRATYSSV	2000,00	9
2483	HPV	type 16 5 type 16 5	8	B*2705 A24	VRATYSSVL TYSSVLTTL	280,00	9
2484 2485	HPV		8	A24 Cw*0401		400,00	9
2400	HPV	type 16 5	o	CM.OFOI	. ZIDOVIII	200,00	-

- 201 -

2487 HPV type 16 5 8 B*2705 VRATYSSVLT 20 2488 HPV type 16 5 9 B*2705 YRFSTIST 10 2489 HPV type 16 5 9 A*0201 YLSTYRFST 19 2490 HPV type 16 5 10 B*2705 CRCWRLQY 10 2491 HPV type 16 5 10 B*2705 WRLQYRWV 60 2492 HPV type 16 5 10 B*2705 CRCWRLQY 10 2493 HPV type 16 5 10 B*2705 CRCWRLQYR 10 2494 HFV type 16 5 10 B*2705 CRCWRLQYR 10 2494 HFV type 16 5 10 B*2705 WRLQYRWVSES 20 2495 HFV type 16 5 10 B*2705 LQYRWVSES 10 2496 HPV type 16 5 10 B*2705 VRWSESGI 30 2497 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2498 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2500 HFV type 16 5 10 B*2705 YRWVSESGII 30 2501 HPV type 16 5 10 B*2705 YRWVSESGII 30 2502 HFV type 16 5 11 B*5102 LPQLMLLL 11 2503 HFV type 16 5 11 B*5102 LPQLMLLL 11	00,00 10 00,00 10 000,00 8 98,82 9 000,00 8 000,00 8 000,00 9 000,00 9 000,00 9	
2487 HPV type 16 5 8 B*2705 VRATYSSVLT 20 2488 HPV type 16 5 9 B*2705 YRFSTIST 10 2489 HPV type 16 5 9 A*0201 YLSTYRFST 19 2490 HPV type 16 5 10 B*2705 CRCWRLQY 10 2491 HPV type 16 5 10 B*2705 WRLQYRWV 60 2492 HPV type 16 5 10 B*2705 CRCWRLQY 10 2493 HPV type 16 5 10 B*2705 CRCWRLQY 10 2494 HFV type 16 5 10 B*2705 CRCWRLQYR 10 2494 HFV type 16 5 10 B*2705 WRLQYRWVSES 10 2495 HFV type 16 5 10 B*2705 LQYRWVSES 10 2496 HPV type 16 5 10 B*2705 LQYRWVSES 10 2497 HFV type 16 5 10 B*2705 YRWVSESGI 30 2498 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2500 HFV type 16 5 10 B*2705 YRWVSESGII 30 2501 HFV type 16 5 10 B*2705 YRWVSESGII 30 2501 HFV type 16 5 10 B*2705 YRWVSESGII 30 2501 HFV type 16 5 10 B*2705 YRWVSESGII 30 2502 HFV type 16 5 11 B*5102 NALYCICL	00,00 10 000,00 8 98,82 9 000,00 8 00,00 8 000,00 9 000,00 9 000,00 9 000,00 9	
2488 HPV type 16 5 9 B*2705 YRFSTTST 10 2489 HPV type 16 5 9 A*0201 YLSTYRFST 19 2490 HPV type 16 5 10 B*2705 CRCWRLQY 10 2491 HPV type 16 5 10 B*2705 WRLQYRWV 60 2492 HFV type 16 5 10 B*2705 YRWVSESG 10 2493 HPV type 16 5 10 B*2705 CRCWRLQYR 10 2494 HFV type 16 5 10 B*2705 WRLQYRWVS 20 2495 HPV type 16 5 10 B*2705 LQYRWVSES 10 2496 HFV type 16 5 10 B*2705 WRLQYRWVS 20 2496 HFV type 16 5 10 B*2705 YRWVSESGI 30 2497 HFV type 16 5 10 B*2705 YRWVSESGI 30 2498 HFV type 16 5 10 B*2705 YRWVSESGI 30 2499 HFV type 16 5 10 B*2705 YRWVSESGI 30 2499 HFV type 16 5 10 B*2705 YRWVSESGI 30 2490 HFV type 16 5 10 B*2705 YRWVSESGI 30 2491 HFV type 16 5 10 B*2705 YRWVSESGI 30 2492 HFV type 16 5 10 B*2705 YRWVSESGI 30 2493 HFV type 16 5 10 B*2705 YRWVSESGI 30 2500 HFV type 16 5 10 B*2705 YRWVSESGI 30 2501 HFV type 16 5 10 B*2705 YRWVSESGI 30 2502 HFV type 16 5 11 B*5102 YRWVSESGI 30 2503 HFV type 16 5 11 B*5102 NALYCICL	000,00 8 08,82 9 000,00 8 000,00 8 000,00 9 000,00 9 000,00 9 000,00 9	
2488 HPV type 16 5 9 A*0201 YLSTYRFST 19 2490 HPV type 16 5 10 B*2705 CRCWRLQY 10 2491 HPV type 16 5 10 B*2705 WRLQYRWV 60 2492 HPV type 16 5 10 B*2705 CRCWRLQYRWV 10 2493 HFV type 16 5 10 B*2705 CRCWRLQYR 10 2494 HFV type 16 5 10 B*2705 CRCWRLQYRWVS 20 2495 HFV type 16 5 10 B*2705 CRCWRLQYRWVS 20 2496 HPV type 16 5 10 B*2705 LQYRWVSES 10 2496 HPV type 16 5 10 B*2705 YRWVSESGI 30 2497 HFV type 16 5 10 B*2702 YRWVSESGI 30 2498 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2500 HFV type 16 5 10 B*2705 CRCWRLQYRW 20 2501 HFV type 16 5 10 B*2702 YRWVSESGII 30 2501 HFV type 16 5 10 B*2702 YRWVSESGII 30 2502 HFV type 16 5 11 B*5102 LPGLLMLL 11 2503 HFV type 16 5 11 B*5102 NALYCICL	98,82 9 000,00 8 000,00 8 000,00 9 000,00 9 000,00 9 000,00 9 000,00 9	
2490 HFV type 16 5 10 B*2705 CRCWRLQY 10 2491 HPV type 16 5 10 B*2705 WRLQYRWV 60 2492 HFV type 16 5 10 B*2705 CRCWRLQYR 10 2493 HFV type 16 5 10 B*2705 CRCWRLQYR 10 2494 HFV type 16 5 10 B*2705 CRCWRLQYR 10 2495 HFV type 16 5 10 B*2705 LQYRWVSES 10 2495 HFV type 16 5 10 B*2705 LQYRWVSES 10 2496 HFV type 16 5 10 B*2705 TRWVSESGI 30 2497 HFV type 16 5 10 B*2705 TRWVSESGI 30 2498 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2705 CRCWRLQYRW 10 2500 HFV type 16 5 10 B*2705 CRCWRLQYRW 20 2501 HFV type 16 5 10 B*2705 TRWVSESGII 30 2501 HFV type 16 5 10 B*2705 TRWVSESGII 30 2501 HFV type 16 5 10 B*2705 TRWVSESGII 30 2502 HFV type 16 5 11 B*5102 NALYCICL 11	000,00 8 00,00 8 00,00 9 000,00 9 000,00 9 000,00 9 000,00 9	
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2493 HFV type 16 5 10 B*2705 CRCWRLQYR 10 2494 HFV type 16 5 10 B*2705 WRLQYRWVS 20 2495 HFV type 16 5 10 B*2705 LQYRWVSES 10 2496 HFV type 16 5 10 B*2702 YRWVSESGI 30 2497 HFV type 16 5 10 B*2705 YRWVSESGI 30 2498 HFV type 16 5 10 B*2702 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2702 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2702 CRCWRLQYRW 20 2500 HFV type 16 5 10 B*2702 YRWVSESGII 30 2501 HFV type 16 5 10 B*2702 YRWVSESGII 30 2502 HFV type 16 5 11 B*5102 LFQLIMLL 11 2503 HFV type 16 5 11 B*5102 NALYCICL	00,00 9 00,00 9 00,00 9 000,00 9	
2494 HFV type 16 5 10 B*2705 WRLQYRWVSS 20 2495 HFV type 16 5 10 B*2705 LQYRWVSES 10 2496 HFV type 16 5 10 B*2705 YRWVSESGI 30 2497 HFV type 16 5 10 B*2702 YRWVSESGI 30 2498 HFV type 16 5 10 B*2702 CRCWRLQYRW 10 2499 HFV type 16 5 10 B*2702 CRCWRLQYRW 20 2500 HFV type 16 5 10 B*2702 YRWVSESGII 30 2501 HFV type 16 5 10 B*2705 YRWVSESGII 30 2502 HFV type 16 5 11 B*5102 NALYCICL 11 2503 HFV type 16 5 11 B*5102 NALYCICL 16	00,00 9 00,00 9 000,00 9	
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2502 HFV type 16 5 11 B*5102 LFQLLMLL 11 2503 HFV type 16 5 11 B*5102 NALYCICL 16	00,00 10	
2503 HPV type 16 5 11 B*5102 NALYCICL 16	000,00 10	
2505 1127 0,150 11 -	10,00 8	
2504 HPV type 16 5 II B*3901 LAQTALPD 12	65,00 8 35,00 8	
	35,00 8 00,00 8	
11 D+2001 THEFT IT	80,00 8	
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111	00,80 9	
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2514 HPV type 16 5 11 A*0201 MLHKYIYV 36	609,23 9	
2515 HPV type 16 5 11 B*5103 TALPLYIHV 13	32,00 9	
70.00 111 V -2.1	00,00 9	
2517 1117 5,56 20 5	00,00 9	
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ADAL MV OJECTO	23,25 9	
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	92,00 10	
	12,31 10	
	606,66 10	
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2533 HPV type 16 5 11 Cw*0401 IYVSSLYNAL 2	00,00 10	
	32,00 10	
	00,00 10	
2000 XXX 0220 20 0	00,00 10	
	.17,49 10 .00,00 10	
2550 1111 5325 20 ==	100,00 10 100,00 10	
2555 111.4 61.10 20 20 20 20 20 20 20 20 20 20 20 20 20	00,00 10	
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2544 HPV type 16 5 12 B*2705 IOPVLAPL 2		
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2545 HPV type 16 5 12 A24 HYYIVSYIL 2		
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2545 HPV type 16 5 12 A24 HYYIVSYIL 2 2546 HPV type 16 5 12 Cw*0401 HYYIVSYIL 2 2547 HPV type 16 5 12 A24 YYIVSYILF 1 2548 HPV type 16 5 12 Cw*0401 YYIVSYILF 1 2549 HPV type 16 5 12 A*0201 YIVSYILFL 1 2550 HPV type 16 5 12 Cw*0301 VSYILFLTL 1	280,00 9 200,00 9 250,00 9 200,00 9 270,92 9 220,00 9	
2545 HPV type 16 5 12 A24 HYYIVSYIL 2 2546 HPV type 16 5 12 Cw*0401 HYYIVSYIL 2 2547 HPV type 16 5 12 A24 YYIVSYILF 1 2548 HPV type 16 5 12 Cw*0401 YYIVSYILF 1 2549 HPV type 16 5 12 A*0201 YIVSYILFL 1 2550 HPV type 16 5 12 Cw*0301 VSYILFLTL 1 2551 HPV type 16 5 12 A*0201 ILFLTLVAV 1	280,00 9 200,00 9 150,00 9 100,00 9 170,92 9 120,00 9	
2545 HPV type 16 5 12 A24 HYYIVSYIL 2 2546 HPV type 16 5 12 Cw*0401 HYYIVSYIL 2 2547 HPV type 16 5 12 A24 YYIVSYILF 1 2548 HPV type 16 5 12 Cw*0401 YYIVSYILF 1 2549 HPV type 16 5 12 A*0201 YIVSYILF 1 2550 HPV type 16 5 12 Cw*0301 VSYILFLT 1 2551 HPV type 16 5 12 A*0201 IIFLTIVAV 1 2552 HFV type 16 5 12 B*5102 VAVQLLVML 1	280,00 9 200,00 9 250,00 9 200,00 9 270,92 9 220,00 9 2006,21 9 265,00 9	
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		16 F	1.4	Cw*0401 FFLGMPCKNL	200,00 10
2576	HPV	type 16 5	14		220,00 10
2577	HPV	type 16 5	14	B*5102 MPCKNLFNAV B*2705 KQYCCNSV	900,00 8
2578	HPV	type 16 5	15 15	B*2705 KQYCCNSV B*2705 HQSQHVDL	200,00 8
2579	HPV HPV	type 16 5 type 16 5	15	B*2705 SQHVDLLL	200,00 8
2580 2581	HPV	type 16 5	15	B*3901 QHVDLLLL	540,00 8
2582	HPV	type 16 5	15	B*5102 IAAFALLV	100,00 8
2583	HPV	type 16 5	15	B*3901 WHIVCLSL	270,00 8
2584	HPV	type 16 5	15	B*5102 TPSPPLPL	100,00 8
2585	HPV	type 16 5	15	B*2702 KQYCCNSVF	300,00 9
2586	HPV	type 16 5	15	B*2705 KQYCCNSVF	1500,00 9
2587	HPV	type 16 5	15	B*5201 KQYCCNSVF	275,00 9
2588	HPV	type 16 5	15	A*0201 FILSAILGV	374,37 9
2589	HPV	type 16 5	15	B*5102 LGVSPNAAI	264,00 9 110,00 9
2590	HPV	type 16 5	15	B*5103 AAIHQSQHV B*5102 AAIHQSQHV	110,00 9 399,30 9
2591	HPV	type 16 5 type 16 5	15 15	B*5102 AAIHQSQHV B*2705 HQSQHVDLL	200,00 9
2592 2593	HPV	type 16 5 type 16 5	15	B*2705 SQHVDLLLL	200,00 9
2594	HPV HPV	type 16 5	15	B*5102 NGLTNSEKL	159,72 9
2595	HPV	type 16 5	15	Cw*0301 EKLTPYNSL	100,00 9
2596	HPV	type 16 5	15	B*5102 FANIAAFAL	100,00 9
2597	HPV	type 16 5	15	Cw*0301 ANIAAFALL	100,00 9
2598	HPV	type 16 5	15	A*0201 LLVFSTFKI	102,87 9
2599	HPV	type 16 5	15	B7 TPSPPLPLL	120,00 9
2600	HPV	type 16 5	15	Cw*0401 TPSPPLPLL	192,00 9
2601	HPV	type 16 5	15	B*5102 TPSPPLPLL	100,00 9
2602	HPV	type 16 5	15	B*2705 KQYCCNSVFI B*5201 KQYCCNSVFI	900,00 10 165,00 10
2603	HPV	type 16 5 type 16 5	15 15	B*5201 KQYCCNSVFI Cw*0401 QYCCNSVFIL	400,00 10
2604	HPV	-44 -	15 15	A24 QYCCNSVFIL	200,00 10
2605 2606	HPV HPV	type 16 5 type 16 5	15	B*5102 NAAIHQSQHV	121,00 10
2607	HPV	type 16 5	15	B*5103 NAAIHQSQHV	110,00 10
2608	HPV	type 16 5	15	B*3901 IHQSQHVDLL	135,00 10
2609	HPV	type 16 5	15	B*2705 HQSQHVDLLL	200,00 10
2610		type 16 5	15	B60 SEKLTPYNSL	160,00 10
2611	HPV	type 16 5	15	Cw*0401 NFANIAAFAL	220,00 10
2612	HPV	type 16 5	15	B*5102 FANIAAFALL	100,00 10
2613	HPV	type 16 5	15	Cw*0401 AFALLVFSTF	100,00 10 223,89 10
2614		type 16 5	15	A*0201 ALLVFSTFKI A*0201 LVFSTFKIFV	800,05 10
2615		type 16 5 type 16 5	15 15	A*0201 LVFSTFRIFV A*0201 KIFVSGVWHI	320,45 10
2616 2617		type 16 5 type 16 5	16	B*2705 NRWGTQFL	10000,00 8
2618		type 16 5	16	B*2705 TQFLVCPL	1000,00 8
2619		type 16 5	16	B*2702 NRWGTQFLV	100,00 9
2620		type 16 5	16	B*2705 NRWGTQFLV	3000,00 9
2621		type 16 5	16	B*2705 TQFLVCPLT	100,00 9
2622	HPV	type 16 5	16	A*0201 FLVCPLTGL	. 226,01 9
2623		type 16 5	16	Cw*0301 TGLPKYECL	500,00 9 200,00 9
2624		type 16 5	16	B*5102 LPKYECLRV	200,00 9 360,00 9
2625		type 16 5 type 16 5	16 16	A24 KYECLRVCF Cw*0401 KYECLRVCF	100,00 9
2626 2627		type 16 5 type 16 5	16	B60 SENRWGTQFL	160,00 10
2628		type 16 5	16	B*2702 NRWGTQFLVC	100,00 10
2629		type 16 5	16	B*2705 NRWGTQFLVC	1000,00 10
2630		type 16 5	16	Cw*0401 QFLVCPLTGL	400,00 10
2631		type 16 5	16	A68.1 LVCPLTGLPK	180,00 10
2632	HPV	type 16 5	17	B*2705 LLFVQMSL	150,00 8
2633		type 16 5	17	B*2705 VQMSLLFF	100,00 8
2634		type-16 5 -	17	B*2705 FRTQWLLT B*2705 TQWLLTVN	200,00 8 100,00 8
2635		type 16 5 type 16 5	17 17	B*2705 TQWLLTVN A*0201 LLFVQMSLL	309,05 9
2636 2637		type 16 5 type 16 5	17	B*2705 LLFVQMSLL	150,00 9
2638		type 16 5	17	Cw*0401 LFVQMSLLF	110,00 9
2639		type 16 5	17	B*2705 VQMSLLFFR	100,00 9
2640		type 16 5	17	A*0201 LLFFRTQWL	739,03 9
2641	L HPV	type 16 5	17	B*2705 LLFFRTQWL	150,00 9
2642		type 16 5	17	Cw*0401 LFFRTQWLL	240,00 9 600,00 9
2643		type 16 5	17	B*2705 FRTQWLLTV B*2705 TOWLLTVNT	600,00 9 100,00 9
2644		type 16 5	17 17	B*2705 TQWLLTVNT A*0201 SLLFVQMSLL	181,79 10
2645 2646		type 16 5 type 16 5	17 17	Cw*0401 LFVQMSLLFF	200,00 10
2647		type 16 5	17	A68.1 FVQMSLLFFR	200,00 10
2648		type 16 5	17	B*5801 MSLLFFRTQW	120,00 10
2649		type 16 5	17	A*0201 SLLFFRTQWL	434,72 10
2650		type 16 5	17	A*0201 LLFFRTQWLL	1007,77 10
2653	1 HPV	type 16 5	17	B*2705 LLFFRTQWLL	150,00 10
2652		type 16 5	17	B*2705 FRTQWLLTVN	200,00 10 138,00 9
2653		type 16 5	18	A*0201 ILTNFRIKL	138,00 9 800,00 8
2654		type 16 5	20 20	B*5102 FGYALSFI B*5102 YALSFIHEL	330,00 9
265	_	type 16 5 type 16 5	20 20	B62 ILTGFGSTDF	149,76 10
2656 265		type 16 5 type 16 5	20	B*3701 TDFGYALSFI	200,00 10
265		type 16 5	20	Cw*0401 GYALSFIHEL	400,00 10
265		type 16 5	20	A24 GYALSFIHEL	220,00 10
266		type 16 5	20	B*5102 YALSFIHELL	330,00 10
266	1 HPV	type 16 6	1	B*2705 LQNIVYIK	200,00 8
266		type 16 6	1	B*2705 KQDVANIV	180,00 8
266		type 16 6	1	B*5103 LALQNIVYI	175,69 9
266	_	type 16 6	1	B*5102 LALQNIVYI	878,46 9 270,00 9
266	5 HPV	type 16 6	1	A3 ALQNIVYIK	2,0,00

- 203 -

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2000	77777	timo 16 6	1	B*2705 KOKODVANI	180,00 9
2666 2667	HPV HPV	type 16 6 type 16 6	1	B*2705 KQDVANIVY	300,00 9
2668	HPV	type 16 6	1	B*2705 KQKQDVANIV	180,00 10
2669	HPV	type 16 6	1	B*5201 KQKQDVANIV	200,00 10
2670	HPV	type 16 6	1	B*2705 KQDVANIVYI	180,00 10
2671	HPV	type 16 6	2	B*2705 KTFPLNLL	150,00 8
2672	HPV	type 16 6	2	A68.1 LVVKICVLK	240,00 9
2673	HPV	type 16 6	2	B*2705 LQKTFPLNL	200,00 9
2674	HPV	type 16 6	2	B*2705 LQKTFPLNLL	200,00 10 150,00 10
2675	HPV	type 16 6	2 2	B*2705 KTFPLNLLPK B*5102 FPLNLLPKKC	145,20 10
2676	HPV	type 16 6 type 16 6	3	B*2705 LQTYKYLL	200,00 8
2677 2678	HPV HPV	type 16 6	3	Cw*0401 VFDKQLPGL	600,00 9
2679	HPV	type 16 6	3	B*2705 KQLPGLQTY	300,00 9
2680	HPV	type 16 6	3	B62 KQLPGLQTY	211,20 9
2681	HPV	type 16 6	3	A24 TYKYLLVCL	240,00 9
2682	HPV	type 16 6	3	Cw*0401 TYKYLLVCL	400,00 9
2683	HPV	type 16 6	3	B60 LEVYVFDKQL	352,00 10
2684	HPV	type 16 6	3	A*0201 YVFDKQLPGL	300,01 10 756,00 10
2685	HPV	type 16 6	3 3	A*0205 YVFDKQLPGL B*2705 KQLPGLQTYK	600,00 10
2686	HPV HPV	type 16 6 type 16 6	3	B*5102 LPGLQTYKYL	146,41 10
2687 2688	HPV	type 16 6	3	A*0201 GLQTYKYLLV	104,33 10
2689	HPV	type 16 6	3	Cw*0401 TYKYLLVCLL	400,00 10
2690	HPV	type 16 6	3	A24 TYKYLLVCLL	240,00 10
2691	HPV	type 16 6	3	A*0201 YLLVCLLGEV	353,95 10
2692	HPV	type 16 6	3	A68.1 VVDQNSSPPK	120,00 10
2693	HPV	type 16 6	4	B*2705 RLFCTVEK	450,00 8
2694	HPV	type 16 6	4	B*2705 LRLFCTVEK	2000,00 9 180,00 8
2695	HPV	type 16 6 type 16 6	6 6	B*3901 QHWYMGIL B*5102 MGILCPSV	180,00 8 132,00 8
2696	HPV HPV	type 16 6 type 16 6	6	A*0201 LMVDNHLDL	107,54 9
2697 2698	HPV	type 16 6	6	B*2705 LQHWYMGIL	200,00 9
2699	HPV	type 16 6	6	A*0201 YMGILCPSV	231,07 9
2700	HPV	type 16 6	6	A*0201 LMVDNHLDLL	121,19 10
2701	HPV	type 16 6	8	B*2705 MRCQENQT	200,00 8
2702	HPV	type 16 6	8	B*2702 MRCQENQTY	200,00 9
2703	HPV	type 16 6	8	B*2705 MRCQENQTY	1000,00 9
2704	HPV	type 16 6	8	A24 TYWGQVNVF	120,00 9 200.00 9
2705	HPV	type 16 6	8	Cw*0401 TYWGQVNVF	200,00 9 100,00 10
2706	HPV	type 16 6	8 8	B*2702 MRCQENQTYW B*2705 MRCQENQTYW	200,00 10
2707	HPV	type 16 6 type 16 6	9	B*2705 LQVVWMFL	200,00 8
2708 2709	HPV HPV	type 16 6	9	B*2705 VQHIHPCL	200,00 8
2710	HPV	type 16 6	9	Cw*0401 MFLHDNICL	200,00 9
2711	HPV	type 16 6	9	A*0201 FLHDNICLC	215,50 9
2712	HPV	type 16 6	9	A*0201 WMFLHDNICL	262,59 10
2713	HPV	type 16 6	9	B*2705 WMFLHDNICL	250,00 10
2714	HPV	type 16 6	9	A*0201 FLHDNICLCV	1311,75 10
2715	HPV	type 16 6	11	B*5102 AGLCKATI B*5102 YAGLSYVI	240,00 8 440,00 8
2716	HPV	type 16 6 type 16 6	11 11	B*5102 YAGLSYVI B*2705 VRLYNPRR	300,00 8
2717 2718	HPV HPV	type 16 6 type 16 6	11	B*2705 GRDPGMGV	600,00 8
2719	HPV	type 16 6	11	B*5102 DPGMGVLL	110,00 8
2720	HPV	type 16 6	11	B*5102 MGVLLVTV	132,00 8
2721	HPV	type 16 6	11	A*0201 YLMFVRLEV	1183,78 9
2722	HPV	type 16 6	11	B14 VRLEVNAGL	100,00 9
2723	HPV	type 16 6	11	B*2705 VRLEVNAGL	2000,00 9
 2724	- HPV	type 16 6_	11	B*5103 NAGLCKATI	121,00 9 242,00 9
2725	HPV	type 16 6	11	B*5102 NAGLCKATI A3 GLCKATISK	120,00 9
2726	HPV	type 16 6 type 16 6	11 11	B*5102 GAILILLSL	165,00 9
2727 2728	HPV HPV	type 16 6 type 16 6	11	B62 ILLSLLEKY	104,00 9
2729	HPV	type 16 6	11	A*0201 SLLEKYNVL	199,30 9
2730	HPV	type 16 6	11	A*0205 SLLEKYNVL	126,00 9
2731	HPV	type 16 6	11	Cw*0301 SLLEKYNVL	150,00 9
2732	HPV	type 16 6	11	A24 KYNVLSTSI	180,00 9 500,00 9
2733	HPV	type 16 6	11	Cw*0301 TSIPSYAGL	
2734	HPV	type 16 6	11	A*0201 GLSYVISLV A68.1 TTLTCCVVR	159,97 9 100,00 9
2735	HPV	type 16 6 type 16 6	11 11	A68.1 TTLTCCVVR A68.1 CVVRLYNPR	400,00 9
2736	HPV		11	A68.1 VVRLYNPRR	200,00 9
2737 2738	HPV HPV	type 16 6 type 16 6	11	B*2705 GRDPGMGVL	2000,00 9
2739	HPV	type 16 6	11	B*3701 RDPGMGVLL	200,00 9
2740	HPV	type 16 6	11	B*5102 DPGMGVLLV	220,00 9
2741	HPV	type 16 6	11	A*0201 GMGVLLVTV	115,53 9
2742	HPV	type 16 6	11	A*0201 LLVTVLGFV	194,44 9
2743	HPV	type 16 6	11	B*5102 LGFVLTINV	220,00 9
2744	HPV	type 16 6	11	B*2705 VRLEVNAGLC	200,00 10 165,00 10
2745	HPV	type 16 6	11	B*5102 GAILILLSLL A*0201 LLSLLEKYNV	118,24 10
2746	HPV	type 16 6 type 16 6	11 11	A*0201 LLSLLEKYNV Cw*0301 LSLLEKYNVL	100,00 10
2747 2748	HPV	type 16 6 type 16 6	11	B*5102 IPSYAGLSYV	242,00 10
2748	HPV HPV	type 16 6	11	B*5102 YAGLSYVISL	110,00 10
2750	HPV	type 16 6	11	B*5102 AGLSYVISLV	145,20 10
2751	HPV	type 16 6	11	A68.1 CVVRLYNPRR	400,00 10
2752	HPV	type 16 6	11	B*2705 RRATGRDPGM	1800,00 10
2753	HPV	type 16 6	11	B*2705 GRDPGMGVLL	2000,00 10
2754	HPV	type 16 6	11	A*0201 VLLVTVLGFV	719,44 10
2755	HPV	type 16 6	11	A*0201 VLGFVLTINV	118,24 10

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			40	240202		200 00 8
2756	HPV	type 16 6	12	B*2705	SRLCFFGA	200,00 8
2757	HPV	type 16 6	12	B*2705	GQVLPNNF	100,00 8
2758	HPV	type 16 6	12	B*2705	FRRGYFVA	200,00 8
2759	HPV	type 16 6	12	B*2705	RRGYFVAA	600,00 8
2760	HPV	type 16 6	12	Cw*0401	FFGAQGDGF	100,00 9
2761	HPV	type 16 6	12	B*2705	GRGGVVGQV	600,00 9
2762	HPV	type 16 6	12	B*2705	GQVLPNNFR	100,00 9
2763	HPV	type 16 6	12	A68.1	QVLPNNFRR	600,00 9
2764	HPV	type 16 6	12	B*2705	FRRGYFVAA	200,00 9
2765	HPV	type 16 6	12	B*2705	RRGYFVAAK	6000,00 9
2766	HPV	type 16 6	12	A68.1	FVAAKHRCR	400,00 9
2767	HPV	type 16 6	12	Cw*0401	CFFGAQGDGF	100,00 10
2768	HPV	type 16 6	12	B*2705	AQGDGFGMGR	100,00 10
2769	HPV	type 16 6	12	B*5102	DGFGMGRGGV	242,00 10
2770	HPV	type 16 6	12	B*2705	GRGGVVGQVL	2000,00 10
2771	HPV	type 16 6	12	B*2705	GQVLPNNFRR	100,00 10
2772	HPV	type 16 6	12	B*2705	FRRGYFVAAK	2000,00 10
2773	HPV	type 16 6	12	B*2705	RRGYFVAAKH	600,00 10
2774	HPV	type 16 6	13	B*2705	TRMNFPYF	1000,00 8
2775	HPV	type 16 6	13	B*5102	FPYFIFTI	4000,00 8
2776	HPV	type 16 6	13	B*2705	TRMNFPYFI	600,00 9
2777	HPV	type 16 6	13	B*5201	FPYFIFTIF	250,00 9
2778	HPV	type 16 6	13	A*0201	FIFTIFFCI	269,06 9
2779	HPV	type 16 6	13	Cw*0401	IFFCIIFKL	440,00 9
2780	HPV	type 16 6	13	B*2702	TRMNFPYFIF	200,00 10
2781	HPV	type 16 6	13	B*2705	TRMNFPYFIF	1000,00 10
2782	HPV	type 16 6	13	Cw*0401	NFPYFIFTIF	100,00 10
2783	HPV	type 16 6	13	Cw*0401	IFTIFFCIIF	100,00 10
2784	HPV	type 16 6	13	A*0201	TIFFCIIFKL	144,98 10
2785	HPV	type 16 6	14	Cw*0401	HFHCISMFF	150,00 9
2786	HPV	type 16 6	14	B*5801	ISMFFYTSCW	120,00 10
2787	HPV	type 16 6	15	B*2705	FRFRQMET	1000,00 8
2788	HPV	type 16 6	15	B*2702	FRFRQMETH	100,00 9
2789	HPV	type 16 6	15	B*2705	FRFRQMETH	1000,00 9
2790	HPV	type 16 6	18	B*5102	NPLQFLPV	660,00 8
2791	HPV	type 16 6	18	B*2705	LQFLPVNY	500,00 8
2792	HPV	type 16 6	18	A*0205	LVYNVYTLL	142,80 9
2793	HPV	type 16 6	18	Cw*0301	LVYNVYTLL	100,00 9
2794	HPV	type 16 6	18	A24	VYTLLHNPL	288,00 9
2795	HPV	type 16 6	18	Cw*0401	VYTLLHNPL	200,00 9
2796	HPV	type 16 6	18	A*0201	LLHNPLQFL	459,40 9
2797	HPV	type 16 6	18	B*2702	LQFLPVNYF	100,00 9
2798	HPV	type 16 6	18	B*2705	LQFLPVNYF	500,00 9
2799	HPV	type 16 6	18	Cw*0301	QFLPVNYFL	100,00 9
2800	HPV	type 16 6	18	Cw*0401	QFLPVNYFL	240,00 9
2801	HPV	type 16 6	18	Cw*0301	LLVYNVYTLL	100,00 10
2802	HPV	type 16 6	18	A*0201	TLLHNPLQFL	999,87 10
2803	HPV	type 16 6	18	B*2705	LQFLPVNYFL	1000,00 10
2804	HPV	type 16 6	18	B*5201	LQFLPVNYFL	130,68 10
2805	HPV	type 16 6	19	B*2705	MQFHYRLL	1000,00 8
2806	HPV	type 16 6	19	B*2705	YRLLCHYR	1000,00 8
2807	HPV	type 16 6	19	B*2705	YRRPIVPS	200,00 8
2808	HPV	type 16 6	19	B*2705	RRPIVPSV	1800,00 8
2809	HPV	type 16 6	19	B*5102	RPIVPSVI	1200,00 8
2810	HPV	type 16 6	19	A24	IYMQFHYRL	300,00 9
2811	HPV	type 16 6	19	Cw*0401	IYMQFHYRL	200,00 9
2812	HPV	type 16 6	19	B*2705	MQFHYRLLC	100,00 9
2813	HPV	type 16 6	19	B*2705	YRLLCHYRR	1000,00 9
2814	HPV	type .16. 6	19	B*2.705 .	YRRPIVPSV	600,00 9
2815	HPV	type 16 6	19	B*2702	RRPIVPSVI	180,00 9
2816	HPV	type 16 6	19	B*2705	RRPIVPSVI	1800,00 9
2817	HPV	type 16 6	19	B*5201	RPIVPSVII	132,00 9
2818	HPV	type 16 6	19	B*5102	RPIVPSVII	1200,00 9
2819	HPV	type 16 6	19	Cw*0301	IYMQFHYRLL	100,00 10
2820	HPV	type 16 6	19	Cw*0401	IYMQFHYRLL	220,00 10
2821	HPV	type 16 6	19	A24	IYMQFHYRLL	300,00 10
2822	HPV	type 16 6	19	B*2705	MQFHYRLLCH	100,00 10
2823	HPV	type 16 6	19	B*2705	YRRPIVPSVI	600,00 10
2824	HPV	type 16 6	19	в*2702	RRPIVPSVII	180,00 10
2825	HPV	type 16 6	19	B*2705	RRPIVPSVII	1800,00 10
2826	HPV	type 16 6	20	Cw*0401	VFVSILACL	480,00 9
2827	HPV	type 16 6	20	A*0205	FVFVSILACL	252,00 10
2828	HPV	type 16 6	21	B*5102	EALSSYTL	150,00 8
2829	HPV	type 16 6	21	Cw*0401		400,00 9
2830	HPV	type 16 6	21	A24	FYTNIMLLL	280,00 9
2831	HPV	type 16 6	21	Cw*0401	FYTNIMLLL	240,00 9
2832	HPV	type 16 6	21	Cw*0301		100,00 9
2833	HPV	type 16 6	21	A24	LYYAILEAL	280,00 9
2834	HPV	type 16 6	21	Cw*0401		400,00 9
2835	HPV	type 16 6	21	B60	LEALSSYTL	640,00 9
2836	HPV	type 16 6	21	Cw*0401		240,00 10
2837	HPV	type 16 6	21	Cw*0301		100,00 10
2838	HPV	type 16 6	21	A*0201	LLYYAILEAL	130,97 10
2839	HPV	type 16 6	21	B*2705	LLYYAILEAL	150,00 10
2840	HPV	type 16 6	23	B*2705	QRMCCLCF	1000,00 8
2841	HPV	type 16 6	23	A3	MLFCFLCSK	450,00 9
2842	HPV	type 16 6	23	B*2705	MLFCFLCSK	150,00 9
2843	HPV	type 16 6	23	Cw*0401		100,00 9
2844	HPV	type 16 6	23	B*2705	KORMCCLCF	300,00 9
2845	HPV	type 16 6	23	B62	KQRMCCLCF	288,00 9

2846	HPV	type 16 6	23	B*2705 QRMCCLCFC	200,00 9
		type 16 6	23	B*2705 RMCCLCFCL	150,00 9
2847	HPV		23	Cw*0401 LYCISMLFCF	220,00 10
2848	HPV	type 16 6		A24 LYCISMLFCF	100,00 10
2849	HPV	type 16 6	23		100,00 10
2850	HPV	type 16 6	23	Cw*0301 YCISMLFCFL	135,00 10
2851	HPV	type 16 6	23	A3 SMLFCFLCSK	2000,00 10
2852	HPV	type 16 6	23	B*2705 QRMCCLCFCL	200,00 8
2853	HPV	type 16 6	24	B*2705 LRTDGAHN	
2854	HPV	type 16 6	24	B*2705 LRTDGAHNS	200,00 9
2855	HPV	type 16 6	25	B*2705 HRPVHRPL	2000,00 8
2856	HPV	type 16 6	25	B*5102 RPVHRPLI	1320,00 8
2857	HPV	type 16 6	25	B*2705 HRPLILWN	200,00 8
2858	YTH	type 16 6	25	B*5102 RPLILWNL	300,00 8
2859	HPV	type 16 6	25	B*2705 ILWNLCFL	150,00 8
2860	HPV	type 16 6	25	B*2705 SRCLCFSS	200,00 8
2861	HPV	type 16 6	25	B14 HRPVHRPLI	120,00 9
2862	HPV	type 16 6	25	B*2705 HRPVHRPLI	600,00 9
2863	HPV	type 16 6	25	B*5102 RPVHRPLIL	330,00 9
2864	HPV	type 16 6	25	B14 HRPLILWNL	120,00 9
2865	HPV	type 16 6	25	B*2705 HRPLILWNL	2000,00 9
2866	HPV	type 16 6	25	A*0201 LILWNLCFL	233,72 9
2867	HPV	type 16 6	25	Cw*0401 CFLSRCLCF	110,00 9
2868	HPV	type 16 6	25	Cw*0401 CFSSGHSGF	100,00 9
2869	HPV	type 16 6	25	B*2705 QQDIHRPVHR	100,00 10
2870	HPV	type 16 6	25	B14 HRPVHRPLIL	400,00 10
2871	HPV	type 16 6	25	B*2705 HRPVHRPLIL	2000,00 10
2872	HPV	type 16 6	25	B*2705 HRPLILWNLC	200,00 10
2873	HPV	type 16 6	25	A3 ILWNLCFLSR	120,00 10
			25	B*2705 SRCLCFSSGH	200,00 10
2874	HPV	type 16 6 type 16 6	1	B*2705 NRDLARMA	200,00 8
2875	HPV		1	B*2705 ARMASRKR	300,00 8
2876	HPV			B*2705 SRKRTSLN	200,00 8
2877	HPV	type 16 6	1		600,00 8
2878	HPV	type 16 6	1	B*2705 KRTSLNHS	100,00 9
2879	HPV	type 16 6	1	B*2705 GQENRDLAR	200,00 9
2880	HPV	type 16 6	1	B*2705 NRDLARMAS	
2881	HPV	type 16 6	1	B*2705 SRKRTSLNH	· · · · ·
2882	HPV	type 16 6	1	B*2705 KRTSLNHSC	
2883	HPV	type 16 6	1	B*2705 NRDLARMASR	1000,00 10
2884	HPV	type 16 6	1	B*2705 RMASRKRTSL	150,00 10
2885	HPV	type 16 6	1	B*2705 SRKRTSLNHS	200,00 10
2886	HPV	type 16 6	2	B*5102 MGLALQNI	264,00 8
2887	HPV	type 16 6	2	B*2705 LQNIVYIK	200,00 8
2888	HPV	type 16 6	2	B*2705 KQDVANIV	180,00 8
2889	HPV	type 16 6	2	B*5201 MGLALQNIV	360,00 9
2890	HPV	type 16 6	2	B*5102 MGLALQNIV	132,00 9
2891	HPV	type 16 6	2	B*5103 LALQNIVYI	175,69 9
2892	HPV	type 16 6	2	B*5102 LALQNIVYI	878,46 9
2893	HPV	type 16 6	2	A3 ALQNIVYIK	270,00 9
2894	HPV	type 16 6	2	B*2705 KQKQDVANI	180,00 9
2895	HPV	type 16 6	2	B*2705 KQDVANIVY	300,00 9
2896	HPV	type 16 6	2	A*0201 GLALQNIVYI	131,97 10
2897	HPV	type 16 6	2	B*2705 KQKQDVANIV	180,00 10
2898	HPV	type 16 6	2	B*5201 KQKQDVANIV	200,00 10
		type 16 6	2	B*2705 KQDVANIVYI	180,00 10
2899	HPV	type 16 6	3	B*2705 TQAFKNTY	100,00 8
2900	HPV HPV	type 16 6	3	B*2705 TRVYYTIH	200,00 8
2901			3	A68.1 DTIVTQAFK	180,00 9
2902	HPV	• • • • •	3	B*2705 TRVYYTIHT	200,00 9
2903	HPV		3	B*3801 LHDTIVTQAF	117,00 10
	HPV		3	B*2705 TQAFKNTYTR	100,00 10
2905	HPV	type 16 6 type 16 6	3	B*5102 QAFKNTYTRV	1210,00 10
2906	HPV				120,00 10
2907	HPV	type 16 6	3 3	B*5103 QAFKNTYTRV B*2705 TRVYYTIHTN	200,00 10
2908	HPV	type 16 6	3 4	Cw*0401 MYKYPVELHF	110,00 10
2909	HPV	type 16 6		A24 MYKYPVELHF	140,00 10
2910	HPV	type 16 6	4 5	B*3901 QHWYMGIL	180,00 8
2911	HPV	type 16 6	5 5	B*5102 MGILCPSV	132,00 8
2912	HPV	type 16 6			200,00 9
2913	HPV	type 16 6	5		231,07 9
2914	HPV	type 16 6	5	A*0201 YMGILCPSV	270,00 8
2915	HPV	type 16 6	6	B*3901 DHDLPQHL	-
2916	HPV	type 16 6	6	B*2705 HRPKPAAV	600,00 8 240,00 8
2917	HPV	type 16 6	6	B*3501 RPKPAAVY	
2918	HPV	type 16 6	6	B*2705 MRCQENQT	
2919	HPV	type 16 6	6	B*2702 HRPKPAAVY	•
2920	HPV	type 16 6	6	B*2705 HRPKPAAVY	1000,00 9
2921	HPV	type 16 6	6	Cw*0401 RPKPAAVYL	105,60 9
2922	HPV	type 16 6	6	B*3501 RPKPAAVYL	120,00 9
2923	HPV	type 16 6	6	Cw*0702 KPAAVYLDY	115,20 9
2924	HPV	type 16 6	6	A68.1 AVYLDYKMR	200,00 9
2925	HPV	type 16 6	6	B*2702 MRCQENQTY	200,00 9
2926	HPV	type 16 6	6	B*2705 MRCQENQTY	1000,00 9
2927	HPV	type 16 6	6	A24 TYWGQVNVF	120,00 9
2928	HPV	type 16 6	6	Cw*0401 TYWGQVNVF	200,00 9
2929	HPV	type 16 6	6	B*2705 HRPKPAAVYL	2000,00 10
2930	HPV	type 16 6	6	B*2702 MRCQENQTYW	100,00 10
2931	HPV	type 16 6	6	B*2705 MRCQENQTYW	200,00 10
2932	HPV	type 16 6	7	B*2705 VQHIHPCL	200,00 8
2933	HPV	type 16 6	7	Cw*0401 MFLHDNICL	200,00 9
2934	HPV	type 16 6	7.	A*0201 FLHDNICLC	215,50 9
2935	HPV	type 16 6	7	A*0201 FLHDNICLCV	1311,75 10
		-220 0	•		•

- 206 -

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2936	HPV	type 16 6	8	B*5102	YAPPKGIV	200,00	8		
2937	HPV	type 16 6	8	B*5102	APPKGIVV	266,20	8		
2938	HPV	type 16 6	8	B*5103	YAPPKGIVV	100,00	9		
2939	HPV	type 16 6	8	B*5102	YAPPKGIVV	200,00	9 9		
2940	HPV	type 16 6	8 9	B*5102 B*5102	KGIVVFAGI AGLCKATI	264,00 240,00	8		
2941 2942	HPV HPV	type 16 6 type 16 6	9	B*5102	YAGLSYVI	440,00	8		
2943	HPV	type 16 6	9	B*2705	VRLYNPRR	300,00	8		
2944	HPV	type 16 6	9	B*2705	GRDPGMGV	600,00	8		
2945	HPV	type 16 6	9	B*5102	DPGMGVLL	110,00	8		
2946	HPV	type 16 6	9	B*5102	MGVLLVTV	132,00	8 9		
2947 2948	HPV HPV	type 16 6 type 16 6	9 9	B14 B*2705	VRLEVNAGL VRLEVNAGL	100,00 2000,00	9		
2948	HPV	type 16 6	9	B*5103	NAGLCKATI	121,00	9		
2950	HPV	type 16 6	9	B*5102	NAGLCKATI	242,00	9		
2951	HPV	type 16 6	9	A3	GLCKATISK	120,00	9		
2952	HPV	type 16 6	9	B*5102	GAILILLSL	165,00	9		
2953	HPV	type 16 6	9 9	B62 A*0201	ILLSLLEKY SLLEKYNVL	104,00 199,30	9 9		
2954 2955	HPV HPV	type 16 6 type 16 6	9	A*0201	SLLEKYNVL	126,00	9		
2956	HPV	type 16 6	9	Cw*0301		150,00	9		
2957		type 16 6	9	A24	KYNVLSTSI	180,00	9		
2958		type 16 6	9	Cw*0301		500,00	9		
2959		type 16 6	9	A*0201	GLSYVISLV	159,97	9		
2960		type 16 6	9 9	A68.1 A68.1	TTLTCCVVR CVVRLYNPR	100,00 400,00	9 9		
2961 2962		type 16 6 type 16 6	9	A68.1	VVRLYNPRR	200,00	9		
2963		type 16 6	9	B*2705	GRDPGMGVL	2000,00	9		
2964		type 16 6	9	B*3701	RDPGMGVLL	200,00	9		
2965		type 16 6	9	B*5102	DPGMGVLLV	220,00	9		
2966		type 16 6	9	A*0201	GMGVLLVTV	115,53	9		
2967		type 16 6	9 9	A*0201 B*5102	LLVTVLGFV LGFVLTINV	194,44 220,00	9 9		
2968 2969		type 16 6 type 16 6	9	B*2705	VRLEVNAGLC	200,00	10		
2970		type 16 6	9	B*5102	GAILILLSLL	165,00	10		
2971		type 16 6	9	A*0201	LLSLLEKYNV	118,24	10		
2972		type 16 6	9		LSLLEKYNVL	100,00	10		
2973		type 16 6	9	B*5102	IPSYAGLSYV	242,00	10		
2974		type 16 6	9	B*5102	YAGLSYVISL	110,00 145,20	10 10		
2975 2976		type 16 6 type 16 6	9 9	B*5102 A68.1	AGLSYVISLV CVVRLYNPRR	400,00	10		
2977		type 16 6	9	B*2705	RRATGRDPGM	1800,00	10		
2978		type 16 6	9	B*2705	GRDPGMGVLL	2000,00	10		
2979		type 16 6	9	A*0201	VLLVTVLGFV	719,44	10		
2980		type 16 6	9	A*0201	VLGFVLTINV	118,24	10		
2981		type 16 6	10	B*5102	APASIKLV	200,00 145,20	8		
2982 2983		type 16 6 type 16 6	10 10	B*5102 B*5102	GGLTGASV GASVSVAV	100,00	8		
2984		type 16 6	10	B*5102	GGLVPNGI	264,00	8		
2985		'type 16 6	10	B*5102	VPNGIYPV	220,00	8		
2986		type 16 6	10	B*5102	RPPVPDPV	200,00	8		
2987		type 16 6	10	B*5102	NPPKNTPI	532,40	8		
2988		type 16 6	10 10	B*5102 A68.1	VPACLHVL DVGAPASIK	100,00 720,00	8 9		
2989 2990		type 16 6 type 16 6	10	B*5103	GAPASIKLV	110,00	9		
2991		type 16 6	10	B*5102	GAPASIKLV	121,00	9		
2992		type 16 6	10	B*2705	VRPPVPDPV	600,00	9		
2993		type 16 6	10	B*5102	PPVPDPVPI	120,00	9		
2994		type 16 6	10		MPPKNTPIL	 133,10	9 9	The statement of the second of	
2995 2996		type 16 6 type 16 6	10 10	B*5102 B*5102	SAIVLPSTL	165,00	9		
2997		type 16 6	10	B*5102	LGIMSGGHV	120,00	9		
2998		type 16 6	10	B*5102	GGLTGASVSV	132,00	10		
2999	HPV	type 16 6	10	A*0201	GLVPNGIYPV	159,97	10		
3000		type 16 6	10	A68.1	LVPNGIYPVR	200,00	10 10		
3001		type 16 6	10 10	B*5102 B*5102	NGIYPVRPPV RPPVPDPVPI	132,00 400,00	10		
3002 3003		type 16 6 type 16 6	10	B*5102	IPNPPKNTPI	440,00	10		
3004		type 16 6	10	B*5102	LPYCNICSAI	2000,00			
300		type 16 6	10	B*5103	LPYCNICSAI	120,00	10		
3006		type 16 6	10	B*3901	GHVPACLHVL	270,00	10		
300		type 16 6	10	Cw*0301		100,00 500,00	10 8		
3008 3009		type 16 6 type 16 6	11 11	B*2705 B*2705	MQYQDLSY SRHCNSFW	200,00	8		
3010		type 16 6	11	B*2705	LRQKLVTL	2000,00			
301:		type 16 6	11	B*2705	RRHCSIQC	600,00	8		
301:	2 HPV	type 16 6	11	B*2705	IQCTMLFK	200,00	8		
3013		type 16 6	11	A*0201	MLWMQYQDL	452,14	9		
3014		type 16 6	11	B*2705	MLWMQYQDL	150,00 500,00	9 9		
3019 301		type 16 6 type 16 6	11 11	B*2705 B*5801	MQYQDLSYR KSSRHCNSF	132,00	9		
301		type 16 6	11	B*2702	SRHCNSFWY	200,00	9		
301		type 16 6	11	B*2705	SRHCNSFWY	1000,00	9		
301	9 HPV	type 16 6	11	A24	WYFNLRQKL	316,80	9		
302		type 16 6	11	Cw*0401		220,00	9		
302:		type 16 6	11 11	B8	NLRQKLVTL	160,00 300,00	9 9		
302: 302:		type 16 6 type 16 6	11 11	в*2705 в62	RQKLVTLPF RQKLVTLPF	576,00	9		
302		type 16 6	11	A*0201	KLVTLPFTI	211,79	9		
302		type 16 6	11	B*5102	LPFTIICKC	121,00	9		

- 207 -

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3026	HPV	type 16 6	11	Cw*0401 M	IFYIMSCPM	110,00 9
3027	HPV	type 16 6	11		MPCRRHCSI	440,00 9
3028	HPV	type 16 6	11		CRRHCSIQC	200,00 9 600,00 9
3029	HPV HPV	type 16 6 type 16 6	11 11		RRHCSIQCT 1QYQDLSYRH	600,00 9 100,00 10
3030 3031	HPV	type 16 6	11		RHKSSRHCN	200,00 10
3032	HPV	type 16 6	11		KSSRHCNSFW	240,00 10
3033	HPV	type 16 6	11		SRHCNSFWYF	200,00 10
3034 3035	HPV HPV	type 16 6 type 16 6	11 11		SRHCNSFWYF LRQKLVTLPF	1000,00 10 200,00 10
3036	HPV	type 16 6	11		LRQKLVTLPF	1000,00 10
3037	HPV	type 16 6	11		CRRHCSIQCT	200,00 10
3038	HPV	type 16 6	11		RRHCSIQCTM YGCSVTITV	1800,00 10 106,48 9
3039 3040	HPV HPV	type 16 6 type 16 6	12 13		GCSVIIIV	100,00 8
3041	HPV	type 16 6	13		FRRGYFVA	200,00 8
3042	HPV	type 16 6	13		RRGYFVAA	600,00 8
3043	HPV	type 16 6 type 16 6	13 13		erggvvgqv eqvlpnnfr	600,00 9 100,00 9
3044 3045	HPV HPV	type 16 6 type 16 6	13		QVLPNNFRR	600,00 9
3046	HPV	type 16 6	13		FRRGYFVAA	200,00 9
3047	HPV	type 16 6	13		RRGYFVAAK	6000,00 9
3048 3049	HPV HPV	type 16 6 type 16 6	13 13		FVAAKHRCR GRGGVVGQVL	400,00 9 2000,00 10
3050	HPV	type 16 6	13		GOVLPNNFRR	100,00 10
3051	HPV	type 16 6	13		FRRGYFVAAK	2000,00 10
3052	HPV	type 16 6	13		RRGYFVAAKH	600,00 10 4000,00 8
3053 3054	HPV HPV	type 16 6 type 16 6	14 14		FPYFIFTI FPYFIFTIF	250,00 9
3055	HPV	type 16 6	14		FIFTIFFCI	269,06 9
3056	HPV	type 16 6	14		IFFCIIFKL	440,00 9
3057	HPV	type 16 6	14		NFPYFIFTIF IFTIFFCIIF	100,00 10 100,00 10
3058 3059	HPV HPV	type 16 6 type 16 6	14 14		TIFFCIIFKL	144,98 10
3060	HPV	type 16 6	15		IAYVSIKL	302,50 8
3061	HPV	type 16 6	15		CPVCIMHCI	1200,00 9
3062 3063	HPV	type 16 6 type 16 6	15 <b>1</b> 5		CIMHCIAYV AYVSIKLHF	447,61 9 210,00 9
3063	HPV HPV	type 16 6	15		AYVSIKLHF	110,00 9
3065	HPV	type 16 6	15		HFHCISMFF	150,00 9
3066	HPV	type 16 6	15		ISMFFYTSCW	120,00 10
3067 3068	HPV HPV	type 16 6 type 16 6	16 17		MFKSHFSGL EGILVVPMV	220,00 9 145,20 9
3069	HPV	type 16 6	17		ILVVPMVYA	106,84 9
3070	HPV	type 16 6	17		LVVPMVYAL	100,00 9
3071	HPV	type 16 6	18		MHFLNCHL	180,00 8 180,00 10
3072 3073	HPV HPV	type 16 6 type 16 6	18 20		CHLCSSNRAL MQFHYRLL	1000,00 8
3074	HPV	type 16 6	20		YRLLCHYR	1000,00 8
3075	HPV	type 16 6	20		YRRPIVPS	200,00 8
3076	HPV	type 16 6 type 16 6	20 20		RRPIVPSV RPIVPSVI	1800,00 8 1200,00 8
3077 3078	HPV HPV	type 16 6 type 16 6	20		MQFHYRLLC	100,00 9
3079	HPV	type 16 6	20	B*2705	YRLLCHYRR	1000,00 9
3080	HPV	type 16 6	20		YRRPIVPSV	600,00 9 180,00 9
3081 3082	HPV HPV	type 16 6 type 16 6	20 20		RRPIVPSVI RRPIVPSVI	180,00 9 1800,00 9
3083	HPV	type 16 6	20		RPIVPSVII	132,00 9
	HPV	type-166	20		RPIVPSVII	. 1200,00 9
3085	HPV	type 16 6	20		MQFHYRLLCH YRRPIVPSVI	100,00 10 600,00 10
3086	HPV HPV	type 16 6 type 16 6	20 20		RRPIVPSVII	180,00 10
3088	HPV	type 16 6	20		RRPIVPSVII	1800,00 10
3089	HPV	type 16 6	21		EALSSYTL	150,00 8
3090	HPV	type 16 6	21 21		MLLLYYAIL LYYAILEAL	100,00 9 280,00 9
3091 3092	HPV HPV	type 16 6 type 16 6	21		LYYAILEAL	400,00 9
3093	HPV	type 16 6	21		LEALSSYTL	640,00 9
3094	HPV	type 16 6	21		LLYYAILEAL	130,97 10
3095	HPV	type 16 6 type 16 6	21 22		LLYYAILEAL VIVFLYCQL	150,00 10 100,00 9
3096 3097	HPV HPV	type 16 6	22		FLYCQLYWV	12951,14 9
3098	HPV	type 16 6	22	Cw*0301	VVIVFLYCQL	100,00 10
3099	HPV	type 16 6	23	B*2705	QQYTNRNT	100,00 8
3100 3101	HPV	type 16 6 type 16 6	23 23	B*2705 B*2705	NRNTLIYY QQYTNRNTL	1000,00 8 1000,00 9
3102	HPV	type 16 6	23		NRNTLIYYF	200,00 9
3103	HPV	type 16 6	23		NRNTLIYYF	1000,00 9
3104	HPV	type 16 6	23		MQQYTNRNTL	200,00 10
3105 3106	HPV	type 16 6 type 16 6	23 25	B*2705 B*2705	QQYTNRNTLI FQSHGALL	300,00 10 200,00 8
3100	HPV	type 16 6	25 25	B*2705	TRCLRFQI	600,00 8
3108	HPV	type 16 6	25	B*2705	LRFQIISF	5000,00 8
3109	HPV	type 16 6	25	B*2705	LQLYFVFL	200,00 8
3110 3111	HPV HPV	type 16 6 type 16 6	25 25	Cw*0401 B*2705	VFQSHGALL LQYCHTRCL	264,00 9 300,00 9
3112	HPV	type 16 6	25	B*2705	TRCLRFQII	600,00 9
3113	HPV	type 16 6	25	B62	CLRFQIISF	144,00 9
3114	HPV	type 16 6	25	B14 B*2702	LRFQIISFL	300,00 9 300,00 9
3115	HPV	type 16 6	25	₽ 4 / 0.2	LRFQIISFL	333,00 3

- 208 -

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3116	HPV	type 16 6	25	B*2705	LRFQIISFL	10000,00 9
3117	HPV	type 16 6	25	B*2705	FQIISFLQL	200,00 9
3118	HPV	type 16 6	25	Cw*0301	FQIISFLQL	100,00 9
3119	HPV	type 16 6	25	Cw*0401	SFLQLYFVF	100,00 9
3120	HPV	type 16 6	25	A*0201	FLQLYFVFL	1026,89 9
3121	HPV	type 16 6	25	B*2705	LQLYFVFLY	100,00 9
3122	HPV	type 16 6	25	B62	LQLYFVFLY	160,00 9
3123	HPV	type 16 6	25	A*0201	QLYFVFLYI	348,87 9 330,00 10
3124	HPV	type 16 6	25 25	B*5102 B*5102	LPVTSAEFPL FPLQYCHTRC	330,00 10 132,00 10
3125 3126	HPV HPV	type 16 6 type 16 6	25	B*2705	LQYCHTRCLR	500,00 10
3127	HPV	type 16 6	25		QYCHTRCLRF	110,00 10
3128	HPV	type 16 6	25	A24	QYCHTRCLRF	100,00 10
3129	HPV	type 16 6	25	B*2705	TRCLRFQIIS	200,00 10
3130	HPV	type 16 6	25	B*2705	LRFQIISFLQ	100,00 10
3131	HPV	type 16 6	25	Cw*0401	RFQIISFLQL	200,00 10
3132	HPV	type 16 6	25	B*2705	FQIISFLQLY	100,00 10
3133	HPV	type 16 6	25	B62	FQIISFLQLY	160,00 10
3134	HPV	type 16 6	25	A*0201	IISFLQLYFV	205,66 10
3135	HPV	type 16 6	25		SFLQLYFVFL	100,00 10
3136	HPV	type 16 6	25		SFLQLYFVFL	200,00 10 108,00 10
3137	HPV	type 16 6	25 26	A3 B*2705	FLQLYFVFLY QRMCCLCF	108,00 10 1000,00 8
3138 3139	HPV HPV	type 16 6 type 16 6	26	A3	MLFCFLCSK	450,00 9
3140	HPV	type 16 6	26	B*2705	MLFCFLCSK	150,00 9
3141	HPV	type 16 6	26		CFLCSKQRM	100,00 9
3142	HPV	type 16 6	26	B*2705	KQRMCCLCF	300,00 9
3143	HPV	type 16 6	26	B62	KQRMCCLCF	288,00 9
3144	HPV	type 16 6	26	B*2705	QRMCCLCFC	200,00 9
3145	HPV	type 16 6	26	B*2705	RMCCLCFCL	150,00 9
3146	HPV	type 16 6	26	B*2705	QRMCCLCFCL	2000,00 10
3147	HPV	type 16 6	27	B*2705	VRFCLSSW	1000,00 8
3148	HPV	type 16 6	27	B*2702	VRFCLSSWT	100,00 9 1000,00 9
3149	HPV	type 16 6	27 27	B*2705 B*2702	VRFCLSSWT VRFCLSSWTI	1000,00 9 300,00 10
3150 3151	HPV HPV	type 16 6 type 16 6	27	B*2702	VRFCLSSWTI	3000,00 10
3152	HPV	type 16 6	27	A*0201	CLSSWTIYFI	131,97 10
3153	HPV	type 16 6	28	B*2705	HRPVHRPL	2000,00 8
3154	HPV	type 16 6	28	B*5102	RPVHRPLI	1320,00 8
3155	HPV	type 16 6	28	B*2705	HRPLILWN	200,00 8
3156	HPV	type 16 6	28	B*5102	RPLILWNL	300,00 8
3157	HPV	type 16 6	28	B*2705	ILWNLCFL	150,00 8
3158	HPV	type 16 6	28	B*2705	SRCLCFSS	200,00 8
3159	HPV	type 16 6	28	B*2702	CRCISMHDY	200,00 9
3160	HPV	type 16 6	28	B*2705	CRCISMHDY	1000,00 9
3161	HPV	type 16 6	28 28	B*3901 B14	MHDYSWVSL	270,00 9 120,00 9
3162 3163	HPV	type 16 6 type 16 6	28	B*2705	HRPVHRPLI HRPVHRPLI	600,00 9
3164	HPV HPV	type 16 6	28	B*5102	RPVHRPLIL	330,00 9
3165	HPV	type 16 6	28	B14	HRPLILWNL	120,00 9
3166	HPV	type 16 6	28	B*2705	HRPLILWNL	2000,00 9
3167	HPV	type 16 6	28	A*0201	LILWNLCFL	233,72 9
3168	HPV	type 16 6	28	Cw*0401	CFLSRCLCF	110,00 9
3169	HPV	type 16 6	28	Cw*0401	CFSSGHSGF	100,00 9
3170	HPV	type 16 6	28	B*2705	CRCISMHDYS	200,00 10
3171	HPV	type 16 6	28	A*0201	SMHDYSWVSL	107,54 10
3172	HPV	type 16 6	28		DYSWVSLRVL	400,00 10
3173	HPV	type 16 6	28	A24	DYSWVSLRVL	200,00 10
.3174 3175	HPV	type 16 6	28	В*2.705. В14	QQDIHRPVHR HRPVHRPLIL	400,00 10
3175	HPV	type 16 6 type 16 6	28	B*2705	HRPVHRPLIL	2000,00 10
3177	HPV	type 16 6	28	B*2705	HRPLILWNLC	200,00 10
3178	HPV	type 16 6	28	A3	ILWNLCFLSR	120,00 10
3179	HPV	type 16 6	28	B*2705	SRCLCFSSGH	200,00 10
3180	HPV	type 16 6	29	B*2705	SRKAKSYT	200,00 8
3181	HPV	type 16 6	29	B*2705	SRRSNCCL	2000,00 8
3182	HPV	type 16 6	29	B*2705	LQYTHSNI	300,00 8
3183	HPV	type 16 6	29	B*2705	SRKAKSYTS	200,00 9
3184	HPV	type 16 6	29	B*2702	RRSNCCLQY	600,00 9
3185	HPV	type 16 6	29	B*2705	RRSNCCLQY	3000,00 9
3186	HPV	type 16 6	29	B*2705	LQYTHSNII	300,00 9 825,00 9
3187 3188	HPV	type 16 6 type 16 6	29 29	B*5201 B*2705	LQYTHSNII SRKAKSYTSR	1000,00 10
3188	HPV HPV	type 16 6	29	B*2703	SRRSNCCLQY	200,00 10
3190	HPV	type 16 6	29	B*2705	SRRSNCCLQY	1000,00 10
3191	HPV	type 16 6	29	B*2705	RRSNCCLQYT	600,00 10
3192	HPV	type 16 6	29	B*2705	LQYTHSNIIS	100,00 10

table 7

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# 4. Influenza

- 209 -

Vaccination of mice with ncORF derived peptides from influenza A virus in combination with KLK / o-d(IC)<sub>13</sub>. Specific T-cell response is measured 7 days after vaccination, and animals are subsequently challenged with a lethal dose of mouse adapted influenza A virus (x31). Survival is monitored for 15 days.

### <u>Materials</u>

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Mice C57Bl/6 (Harlan-Winkelmann, Germany)

Peptides p82 (GLCTLVAML)

Control peptide derived from EBV; HLA-A\*0201; AA start 280

#### p1574 (IASNENMETM)

Control peptide derived from Influenza nucleoprotein, AA start 365

#### p1569 (TMLYNKMEF)

Flu ncORF drived peptide from segment 1, frame 1, ORF 1, AA start 569

#### p1600 (SSIAAQDAL)

Flu ncORF derived peptide from segment 3, frame 6, ORF 2, AA start 83

### P1664 (VTILNLALL)

Flu ncORF derived peptide from segment 4, frame 5, ORF 6, AA start 9

Dose: 100µg/peptide/mouse

o-d(IC)<sub>13</sub> ODN 5'ICI CIC ICI CIC ICI CIC ICI CIC (=ODN1a) IC3'

was synthesized by Purimex Nucleic Acids Technology, Göttingen

AND THE REPORT OF THE PROPERTY

Dose: 5nmol/mouse

KLK KLKLLLLKLK-COOH

was synthesized by MPS (Multiple Peptide System, USA)

- 210 -

Dose: 127nmol/mouse

Formulation 270mM Sorbit/10mM Hepes

Influenza A x31, mouse adapted influenza A virus,

virus rec. virus derived from A/Pr/8/34 (seg 1, 2, 3, 5,

7, 8) and A/Aichi/2/68 (seg 4, 6)

# Experimental setup (15 mice/group)

1. p1574 + KLK + o-d(IC)<sub>13</sub>
2. p1569 + KLK + o-d(IC)<sub>13</sub>
3. p1600 + KLK + o-d(IC)<sub>13</sub>
4. p1664 + KLK + o-d(IC)<sub>13</sub>

5.  $p1600+p1569 + KLK + o-d(IC)_{13}$ 

On day 0 mice were injected s.c. into both hind footpads with a total amount of 100µl vaccine/mouse (50µl/foot) containing the above listed compounds. On day 7, unseparated splenocytes from 5 mice were stimulated in 96-well ELIspot plates in order to enumerate the number of peptide-specific IFN- $\gamma$  producing cells for each experimental group.

Remaining 10 mice were challenged with mouse adapted x31 influenza A virus (5\* 10E5 pfu). Survival was monitored for 15 days.

### Results ELIspot (Fig. 5a)

Spleen cells of groups 1 and 3 (peptides p1574 and p1600) do not show any specific spots after restimulation with the respective peptides. Groups 2 and 4 (p1569 and p1664) specifically release IFN- $\gamma$  after restimulation. Group 5 was vaccinated with two individual peptides (not as a mix, p1600 and p1569). Upon restimulation with either the mix of both peptides or p1569, specific cytokine release is detected. In contrast, upon restimulation with p1600 alone, no IFN- $\gamma$  spots are detectable. This is consistent with group 3 (p1600 alone).

## Results challenge (Fig. 5b)

Fig. 5b shows the survival rate of challenged mice with a lethal dose of mice adapted influenza A virus x31. Group 1 (p1574, reported protective epitope for H2-Db) protects 30% of all chal-

- 211 -

lenged mice. Peptide p1569 does not at all provide protection (0%). In contrast, peptides p1600 and p1664 do protect 50% and 62% of challenged animals, respectively. When animals are vaccinated with two different peptides (group 5, peptides p1600 and 1569) up to 70% of animals are protected.

- 212 -

#### Claims:

1.: Polypeptide encoded by an alternative reading frame of a pathogenic virus, characterized in that said polypeptide

- starts with a methionine amino acid residue,
- comprises an antigenic determinant and
- comprises more than 7 amino acid residues and fragments of said polypeptide comprising more than 7 amino acids.
- 2. Polypeptide or fragments according to claim 1 characterized in that said pathogenic virus is selected from the group consisting of Hepatitis A virus (HAV), Hepatitis B virus (HBV), Hepatitis C virus (HCV), Hepatitis D virus (HDV), Hepatitis E virus (HEV), Hepatitis F virus (HFV) Hepatitis G virus (HGV) Human Immunodeficiency virus (HIV), Influenza virus, Foot and Mouth Disease virus (FMDV), Ebola virus, HTLV I, HTLV II, SIV, Parvovirus, Papilloma virus, Rotavirus, Adenovirus, Cytomegalovirus, Feline Immunodeficiency virus (FIV), Epstein-Barr virus (EBV), Herpes simplex virus (HSV), Herpes zoster virus (HZV), Measles virus and oncogenic viruses.
- 3. Polypeptide or fragments according to claim 1 or 2, characterized in that it comprises at least one cytotoxic T lymphocyte (CTL-) epitope.
- 4. Polypeptide or fragments according to any one of claims 1 to 3, characterized in that is comprises a cytotoxic T lymphocyte (CTL-) epitope for a HLA allele selected from the group consisting of A0201, A1, A24, A3, A31, B3501, B4403, B7, B8, especially A0201, or mixtures thereof.
- 5. Polypeptide or fragments according to any one of claims 1 to 4, characterized in that it comprises at least one T helper cell epitope.
- 6. Polypeptide or fragments according to any one of claims 1 to 5, characterized in that is comprises a T helper cell epitope for a HLA allele selected from the group consisting of DP, DQ, DR or mixtures thereof

- 213 -

- 7. Polypeptide, selected from the group listed in table 2a)-n) (Seq.ID No.1-822) or a fragment of said polypeptide comprising more than 7 amino acids.
- 8. Polypeptide comprising or consisting of a fragment selected from the group listed in table 4a)-n, preferable fragments with a score of 50 or more, more preferred with a score of more than 200, especially fragments with a score of more than 500.
- 9. Polypeptide, selected from the group listed in table 6 and comprising 7 or more than 7 amino acid residues (Seq.ID No.823-874) or a fragment of said polypeptide comprising more than 7 amino acid residues.
- 10. Polypeptide or fragments according to any one of claims 1 to 9, characterized in that it is conjugated to a carrier, especially to an immunomodulating substance.
- 11. Polypeptide or fragments according to any one of claims 1 to 10, characterized in that it is conjugated to an immunomodulating substance selected from the group comprising polycationic substances, especially polycationic polypeptides, and immunomodulating nucleic acids, especially deoxyinosine— and/or deoxyuridine containing oligodeoxynucleotides.
- 12. Polypeptide or fragments according to any one of claims 1 to 11, characterized in that it comprises at least one T cell epitope.
- 13. Polypeptide or fragments according to any one of claims 1 to 12, characterized in that it is encoded by an alternative reading frame which reads on the complementary strand as the functional reading frame of said pathogenic virus.
- 14. Polypeptide or fragments according to any one of claims 1 to 13, characterized in that it comprises at least one peptide selected from the group of peptides listed in table 4a, 4c, 4e, 4g, 4i, 4k and 4m having a score of 50 or more, more preferred with a score of more than 200, especially with a score of more

- 214 -

than 500.

- 15. Polypeptide or fragments according to any one of claims 1 to 14, characterized in that it is used as a therapeutic agent.
- 16. Polypeptide or fragments according to any one of claims 1 to 15, characterized in that it comprises a tail consisting of two to seven amino acids, said amino acids being selected from F, I, L, A, Y, W or C, at at least one of its N- or C- terminus.
- 17. Polypeptide or fragments according to any one of claims 1 to 15, characterized in that it comprises a tail consisting of two to seven amino acids, said amino acids being selected from E or D, at at least one of its N- or C- terminus.
- 18. Polypeptide or fragments according to any one of claims 1 to 17, characterized in that it comprises a peptide selected from the group of peptides listed in table 7 having a score of 50 or more, more preferred with a score of more than 200, especially with a score of more than 500.
- 19. Pharmaceutial composition comprising one or more polypeptides or fragments according to any one of claims 1 to 18.
- 20. Pharmaceutical composition according to claim 19, characterized in that it further comprises an immunomodulating substance, preferably selected from the group comprising polycationic substances, especially polycationic polypeptides, and immunomodulating nucleic acids, especially deoxyinosine—and/or deoxyuridine containing oligodeoxynucleotides.
- 21. Pharmaceutical composition according to claim 19 or 20, characterized in that it further comprises structural or functional polypeptides of a pathogenic virus or fragments thereof, especially structural or functional polypeptides or fragments thereof comprising an antigenic determinant.
- 22. Pharmaceutical composition according to any one of claims 19 to 21, characterized in that it contains per administerable dose 1 ng to 1 g, preferably 100 ng to 10 mg, especially 10  $\mu g$  to

- 215 -

- 1 mg, of one or more polypeptides or fragments according to any one of claims 1 to 18.
- 23. Pharmaceutical composition according to any one of claims 19 to 22, characterized in that it is formulated as a vaccine.
- 24. Pharmaceutical composition according to any one of claims 19 to 23, characterized in that it comprises further active ingredients, especially immunopotentiating cytokines, anti-inflammatory substances, antimicrobial substances or combinations thereof.
- 25. Pharmaceutical composition according to any one of claims 19 to 24, characterized in that it further comprises a polycationic polymer selected from the group consisting of a polycationic peptide, especially polyarginine, polylysine or an antimicrobial peptide, especially a cathelicidin-derived antimicrobial peptide, or a growth hormone, especially a human growth hormone.
- 26. Pharmaceutical composition according to any one of claims 19 to 25, characterized in that it further comprises auxiliary substances, especially a pharmaceutically acceptable carrier, buffer substances, stabilizers or combinations thereof.
- 27. Use of a polypeptide or fragments according to any one of claims 1 to 18 for the manufacture of a medicament for treating or preventing an infection with said pathogenic virus.

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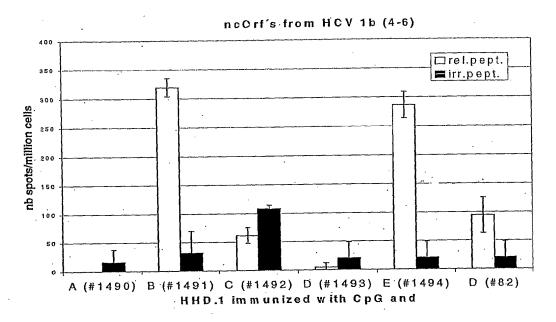


Fig.1

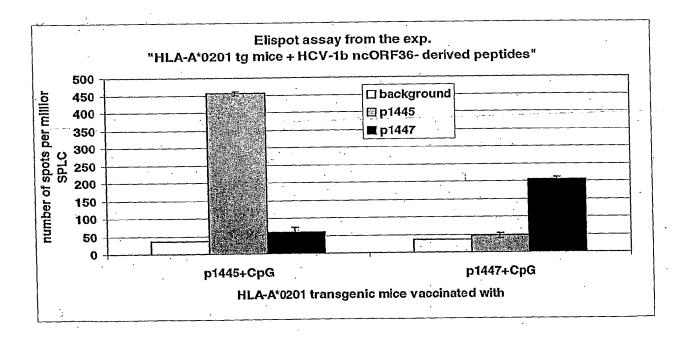


Fig.2

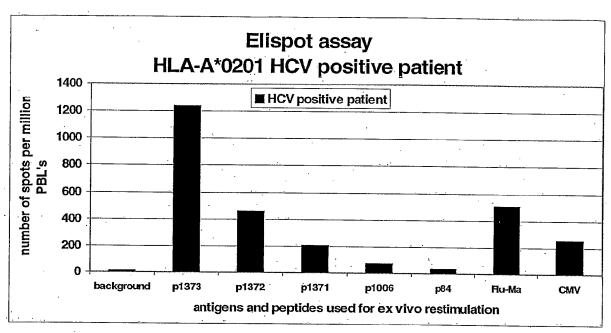


Fig.3

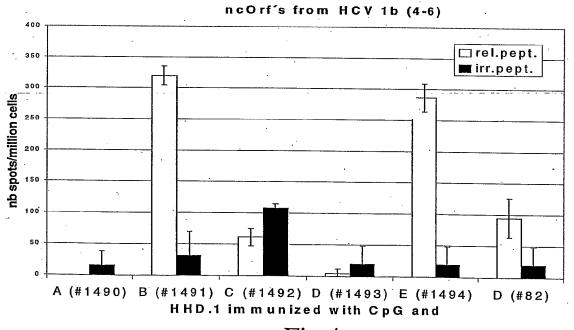
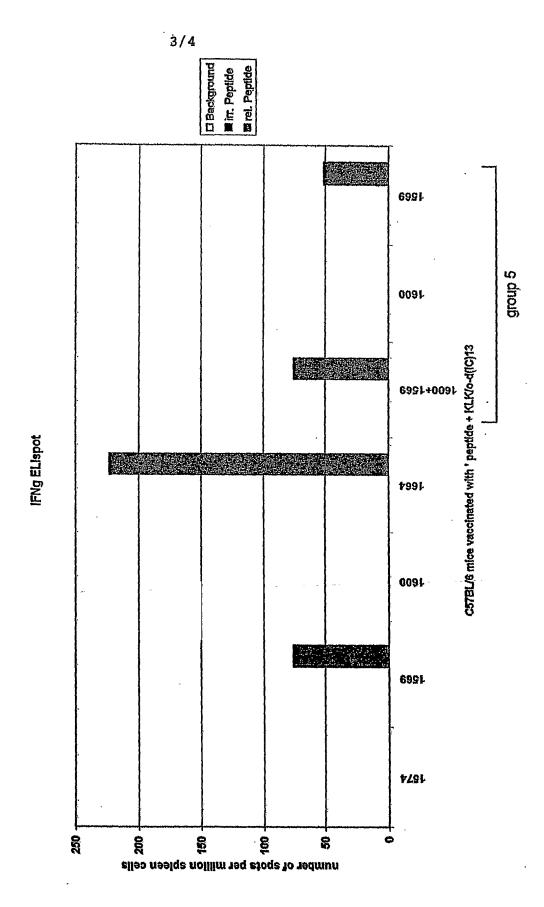


Fig.4

Vaccination of mice with ncORF derived peptides from influenza A virus in combination with KLK/o-d(IC)<sub>13</sub> Fig. 5a:

IFN-y ELIspot



Vaccination of mice with ncORF derived peptides from influenza A virus in combination with KLK/o-d(IC)<sub>13</sub> Fig. 5b:

Challenge

